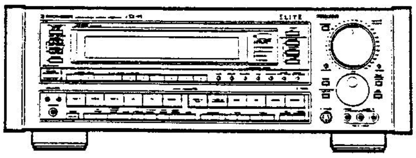
PIONEER

The Art of Entertainment

Service Manual



ORDER NO.
ARP2287

AUDIO/VIDEO STEREO RECEIVER

VSX-95

VSX-9900S

VSX−95 AND VSX−9900S HAVE THE FOLLOWING :

Type	Model		Power Requirement	Remarks
	VSX−95	VSX−9900S		
KUC	○	○	AC120V only	
SD	—	○	AC110V, 120V−127V, 220V, 240V (switchable)	

- **This manual is applicable to the VSX−95/KUC, VSX−9900S/KUC and SD types.**
- **As to the VSX−9900S/KUC and SD types, refer to pages 111−113.**

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This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).
When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

1. SAFETY INFORMATION

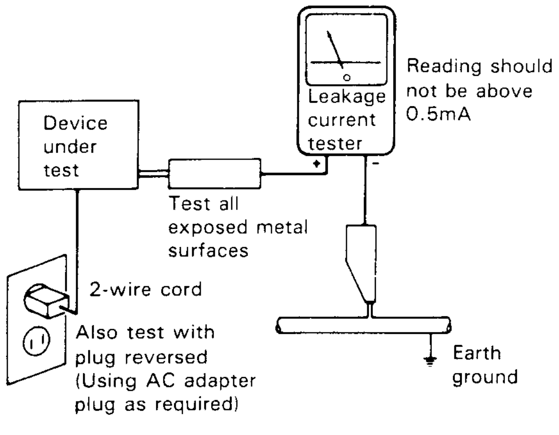
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.


Device under test
Leakage current tester
Reading should not be above 0.5mA
Test all exposed metal surfaces
2-wire cord
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.
The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. EXPLODED VIEWS, PACKING AND PARTS LIST

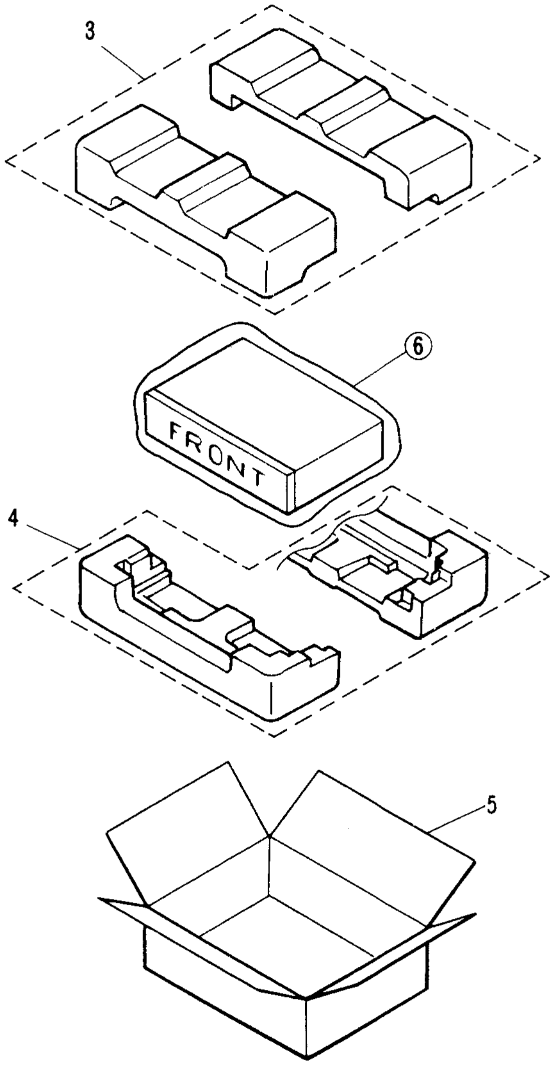
NOTES:

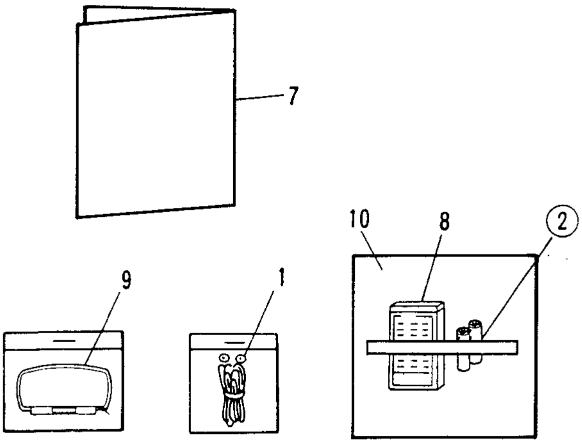
- *Parts without part number cannot be supplied.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

2.1 PACKING

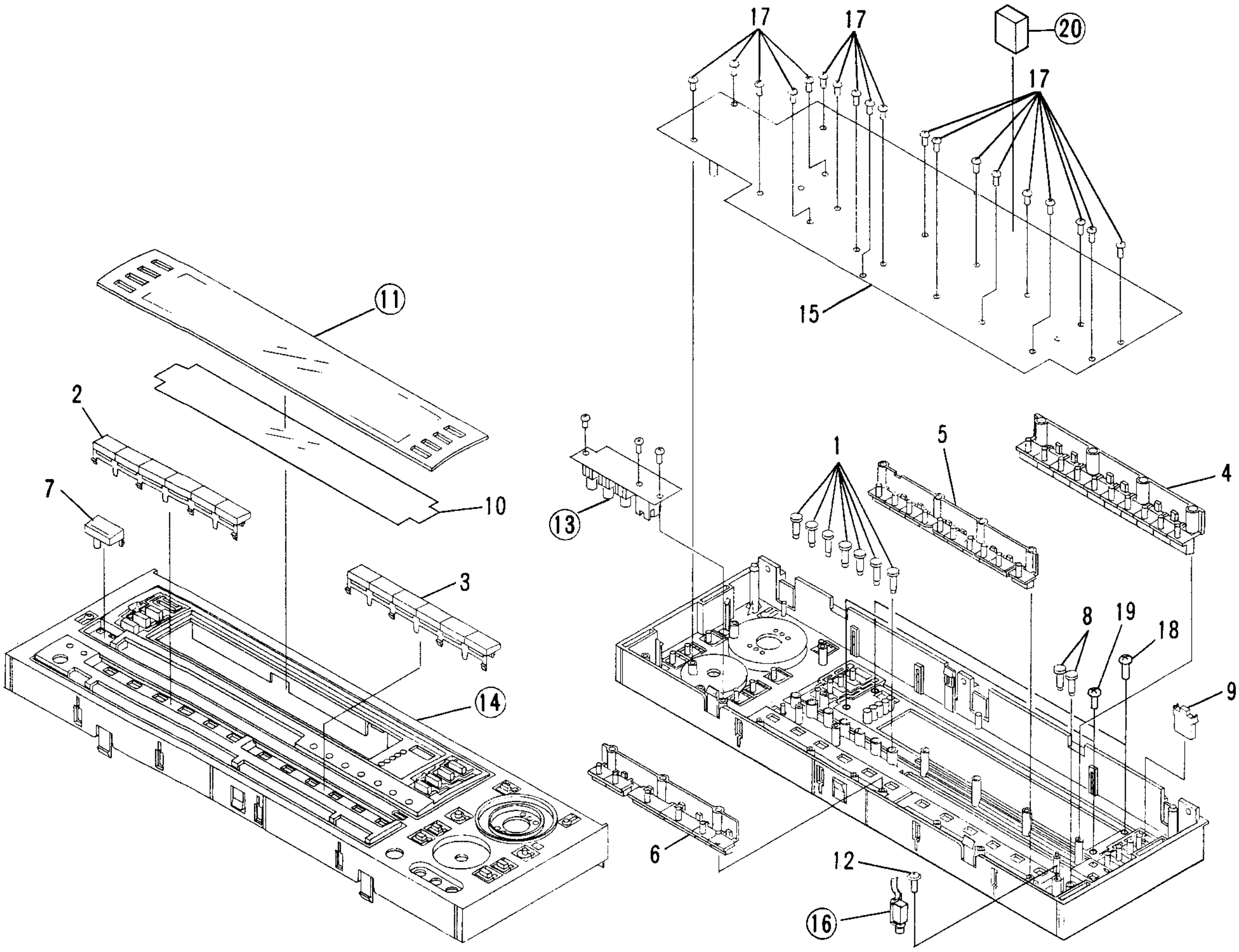
Parts list of Packing

Mark	No.	Description	Parts No.
	1	FM ANTENNA	ADH1004
	2	ALKALINE DRY CELL BATTERY (LR6, AA)	
	3	TOP PAD	AHA1033
	4	BOTTOM PAD	AHA1034
	5	PACKING CASE	AHD2122
	6	PACKING SHEET	
	7	OPERATING INSTRUCTIONS (English)	ARB1333
	8	REMOTE CONTROL UNIT (CU-VSX031)	AXD1223
	9	LOOP ANTENNA	ATB1005
	10	SPACER	AHB1069





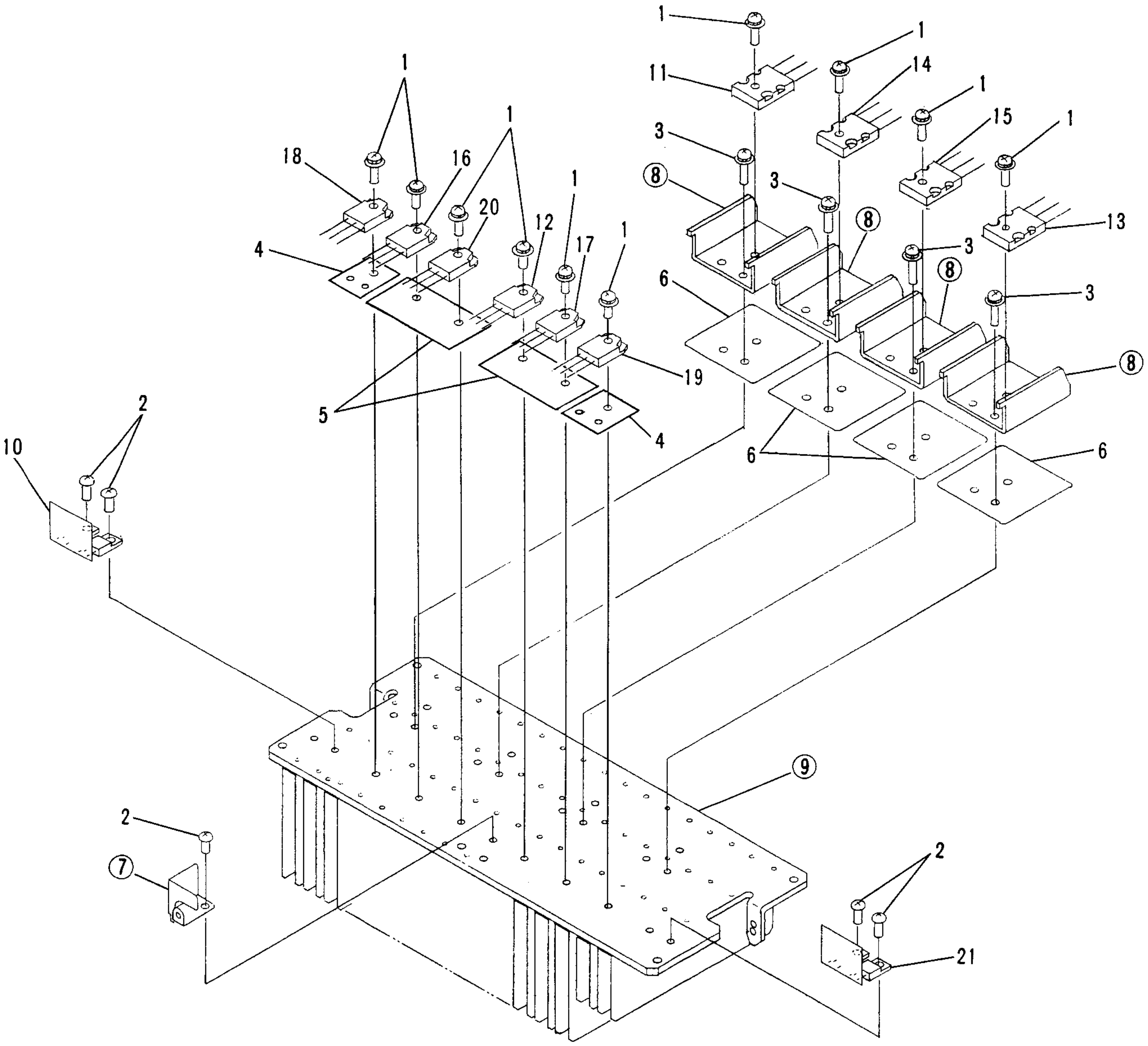
2.2 FRONT PANEL SECTION



Parts list of Front panel section

Mark	No.	Description	Parts No.
	1	KIN BUTTON (SURROUND MODE)	AAD1609
	2	FUNCTION KNOB (INPUT SELECTOR)	AAD2004
	3	FUNCTION KNOB (INPUT SELECTOR)	AAD2005
	4	STATION BUTTON (PLS)	AAD2006
	5	TUNING BUTTON (PLS)	AAD2007
	6	BALANCE BUTTON (PLS)	AAD2008
	7	POWER BUTTON (PLS)	AAD2009
	8	BUTTON (SPEAKER)	AAD2030
	9	LENS	AAK2144
	10	FL FILTER	AAK2169
	11	PVC PANEL (PLS)	
	12	PWB SCREW	ABA1085
	13	FRONT VIDEO ASSEMBLY	
	14	PANEL BASE	
●	15	FRONT CONTROL ASSEMBLY	AWZ3569
	16	HEADPHONE ASSEMBLY	
	17	SCREW	BBZ26P080FMC
	18	SCREW	ABA1137
	19	SCREW	ABA1138
	20	CUSHION RUBBER	

2.3 HEAT SINK SECTION



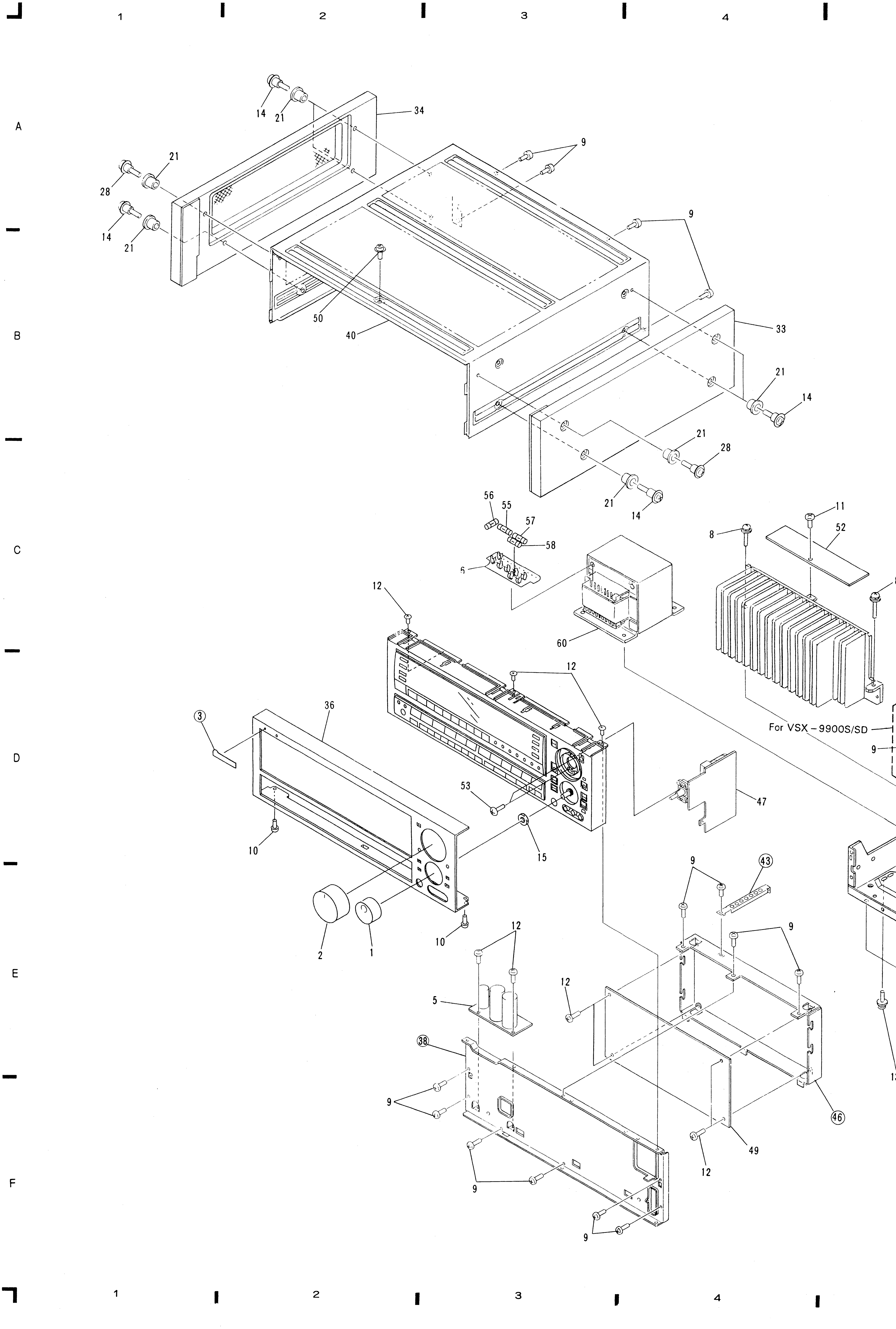
Parts list of Heat sink section

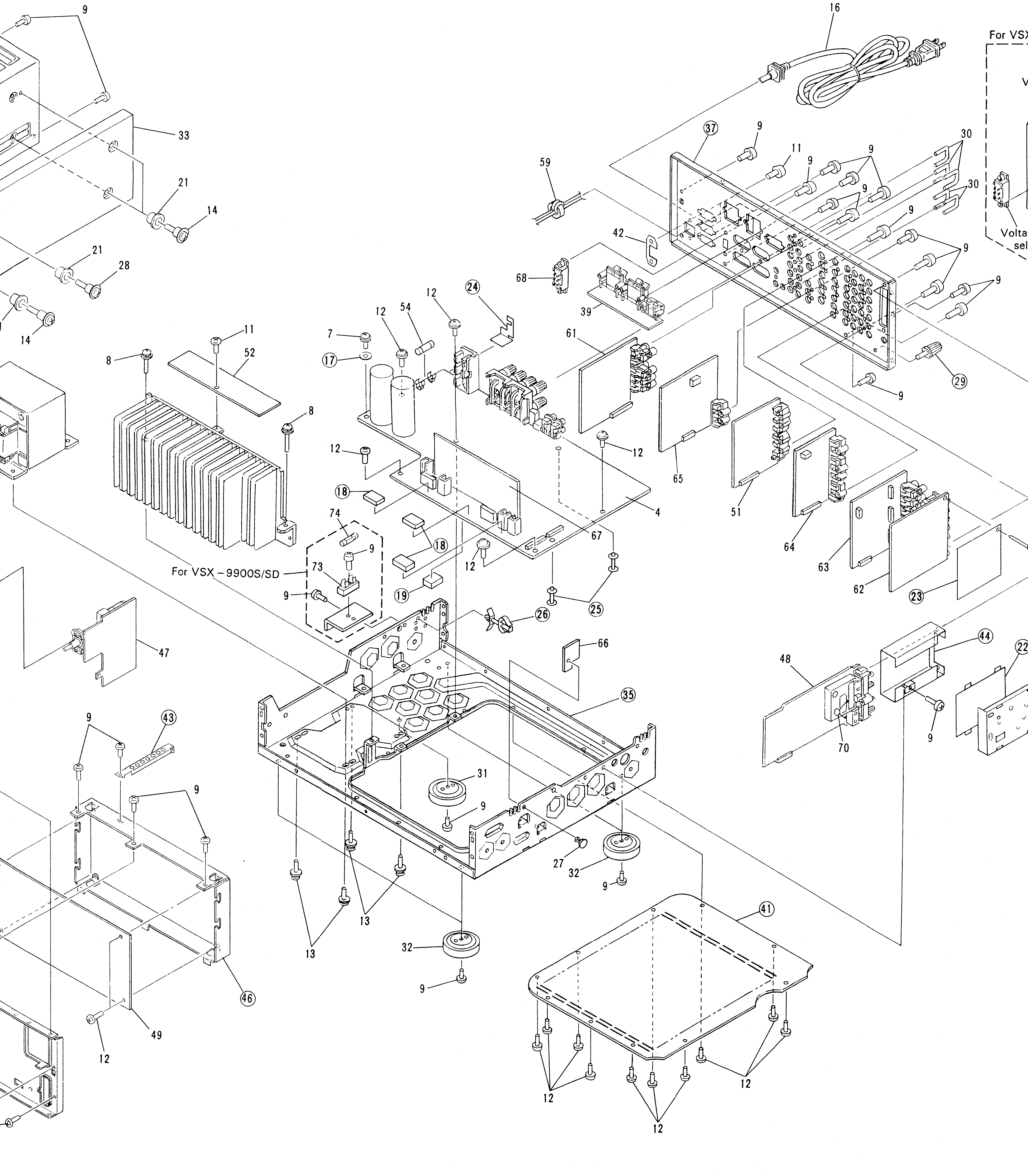
Mark	No.	Description	Parts No.
	1	SCREW (STEEL)	ABA-297
	2	SCREW	ABA-298
	3	SCREW (STEEL)	ABA1105
	4	MICA SHEET	AEC-818
	5	MICA SHEET	AEC1140
	6	MICA SHEET	AEE1033
	7	PCB SUPPORT	
	8	SUB HEAT SINK	
	9	HEAT SINK	
◉	10	REGULATOR 1 ASSEMBLY	AWZ3574
⚠	11	TRANSISTOR (Q1)	2SC3281
⚠	12	TRANSISTOR (Q10)	2SA1263N
⚠	13	TRANSISTOR (Q2)	2SC3281
⚠	14	TRANSISTOR (Q3)	2SA1302
⚠	15	TRANSISTOR (Q4)	2SA1302
⚠	16	TRANSISTOR (Q5)	2SC3180N
⚠	17	TRANSISTOR (Q6)	2SC3180N
⚠	18	TRANSISTOR (Q7)	2SA1263N
⚠	19	TRANSISTOR (Q8)	2SA1263N
⚠	20	TRANSISTOR (Q9)	2SC3180N
◉	21	REGULATOR 2 ASSEMBLY	AWZ3575

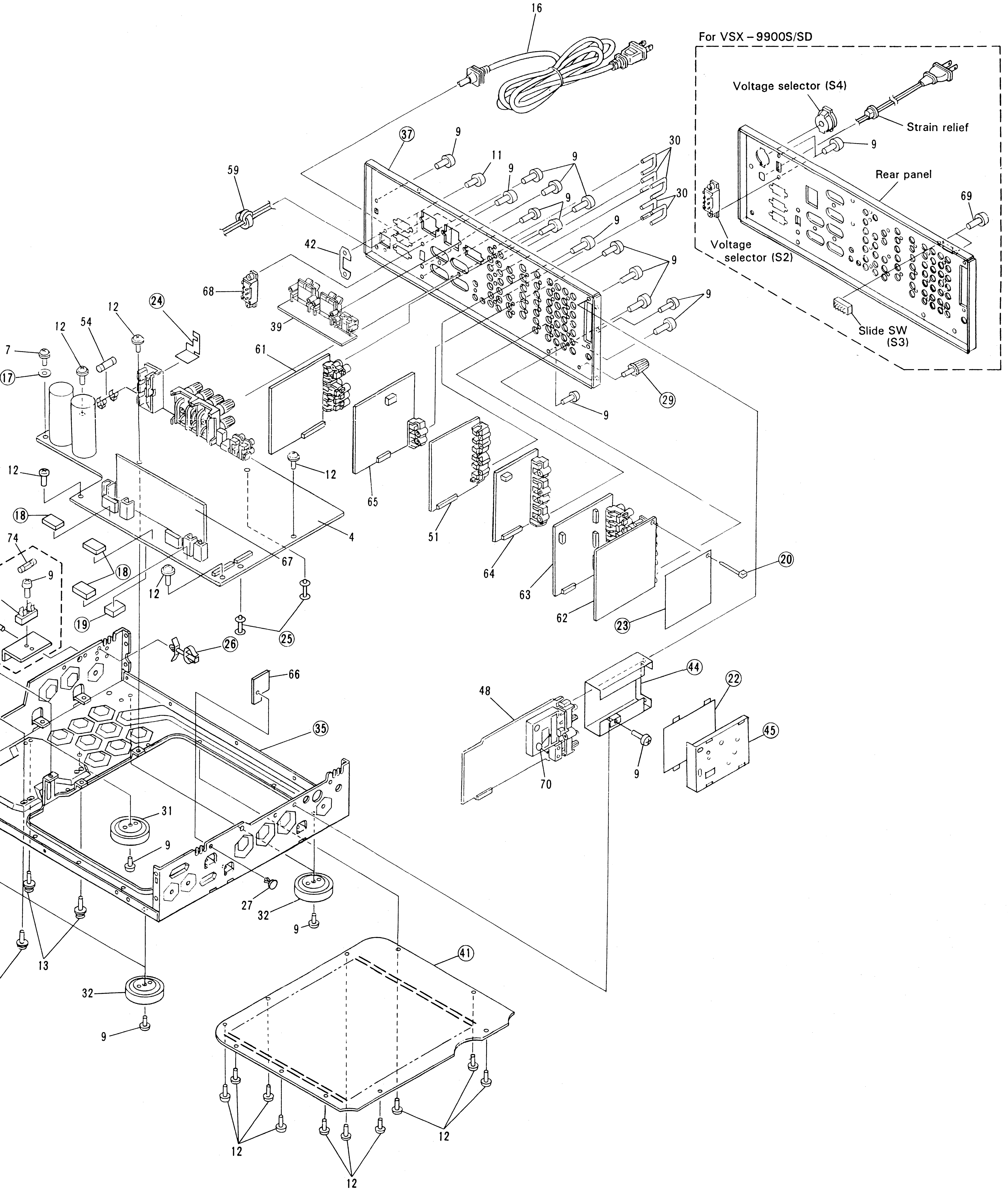
2.4 EXTERIOR

Parts list of Exterior

Mark	No.	Description	Parts No.
	1	ROTARY KNOB (JOG)	AAA1009
	2	MASTER VOL ASSEMBLY	AAB1235
	3	NAME PLATE (METAL)	
◉	4	PS.μ−COM ASSEMBLY	AWZ3571
◉	5	R.C.REG.POWER SUPPLY ASSEMBLY	AWZ3572
◉	6	TRANS ASSEMBLY	AWZ3573
	7	SCREW (STEEL)	ABA−283
	8	SCREW (STEEL)	ABA−297
	9	SCREW	ABA−298
	10	SCREW (STEEL)	ABA1006
	11	SCREW (STEEL)	ABA1009
	12	SCREW (STEEL)	ABA1011
	13	SCREW	ABA1034
	14	SCREW (STEEL)	ABA1086
	15	NUT	ABN1016
⚠	16	AC POWER CORD	ADG1072
	17	SPACER RING	
	18	DAMPER SHEET A	
	19	CUSHION (RUBBER)	
	20	NYLON BINDER	
	21	WOOD COLLAR	AEC1165
	22	SHEET B	
	23	SHEET C	
	24	BARRIER	
	25	SPACER	
	26	HOLDER	
	27	NYLON RIVET	AEP−035
	28	SCREW	VBZ40P160FZK
	29	TERMINAL SCREW	
	30	PLUG	AKM1061
	31	LEG ASSEMBLY	AMR1158
	32	LEG ASSEMBLY	AMR1159
	33	SIDE BOARD R	AMS1056
	34	SIDE BOARD L	AMS1057
	35	CHASSIS	
	36	FRONT PANEL	ANB1480
	37	REAR PANEL	
	38	PANEL STAY	
◉	39	R.C.SPEAKER ASSEMBLY	AWZ3566
	40	METAL BONNET	ANE1307
	41	BOTTOM PLATE	
	42	AC CORD SPACER	ANG1153
	43	HEAT SINK HOLDER	
	44	CASE (TUNER)	
	45	COVER (TUNER)	
	46	CASE (DSP)	
◉	47	MOTOR VOLUME ASSEMBLY	AWZ3567
◉	48	TUNER ASSEMBLY	AWE1160
◉	49	DSP ASSEMBLY	AWZ3570
	50	SCREW	FBT40P080FZK
◉	51	S.VIDEO ASSEMBLY	AWZ3564
◉	52	R.C.AMP ASSEMBLY	AWZ3568
	53	SCREW	VMZ30P060FMC
⚠	54	FUSE (8A, FU1)	AEK1035
⚠	55	FUSE (6.3A, FU3)	AEK−309
⚠	56	FUSE (6.3A, FU4)	AEK−309
⚠	57	FUSE (1.25A, FU5)	AEK−120
⚠	58	FUSE (1.25A, FU6)	AEK−120
	59	FERRITE CORE (L)	ATX1017
	60	POWER TRANSFORMER (T)	ATS1360
◉	61	OSD ASSEMBLY	AWZ3634
◉	62	MAIN FUNCTION ASSEMBLY	AWZ3673
◉	63	SUB FUNCTION ASSEMBLY	AWZ3674
◉	64	VIDEO FUNCTION ASSEMBLY	AWZ3675
◉	65	ENHANCER ASSEMBLY	AWZ3676
◉	66	BARRIER ASSEMBLY	AWZ3825
◉	67	FRONT AMP ASSEMBLY	AWH1014
⚠	68	SPEAKER IMPEDANCE SELECTOR (S1)	AKX1004
	69	SCREW	VMZ26P040FZK
	70	CERAMIC CAPACITOR (C1)	CKDYF103Z50

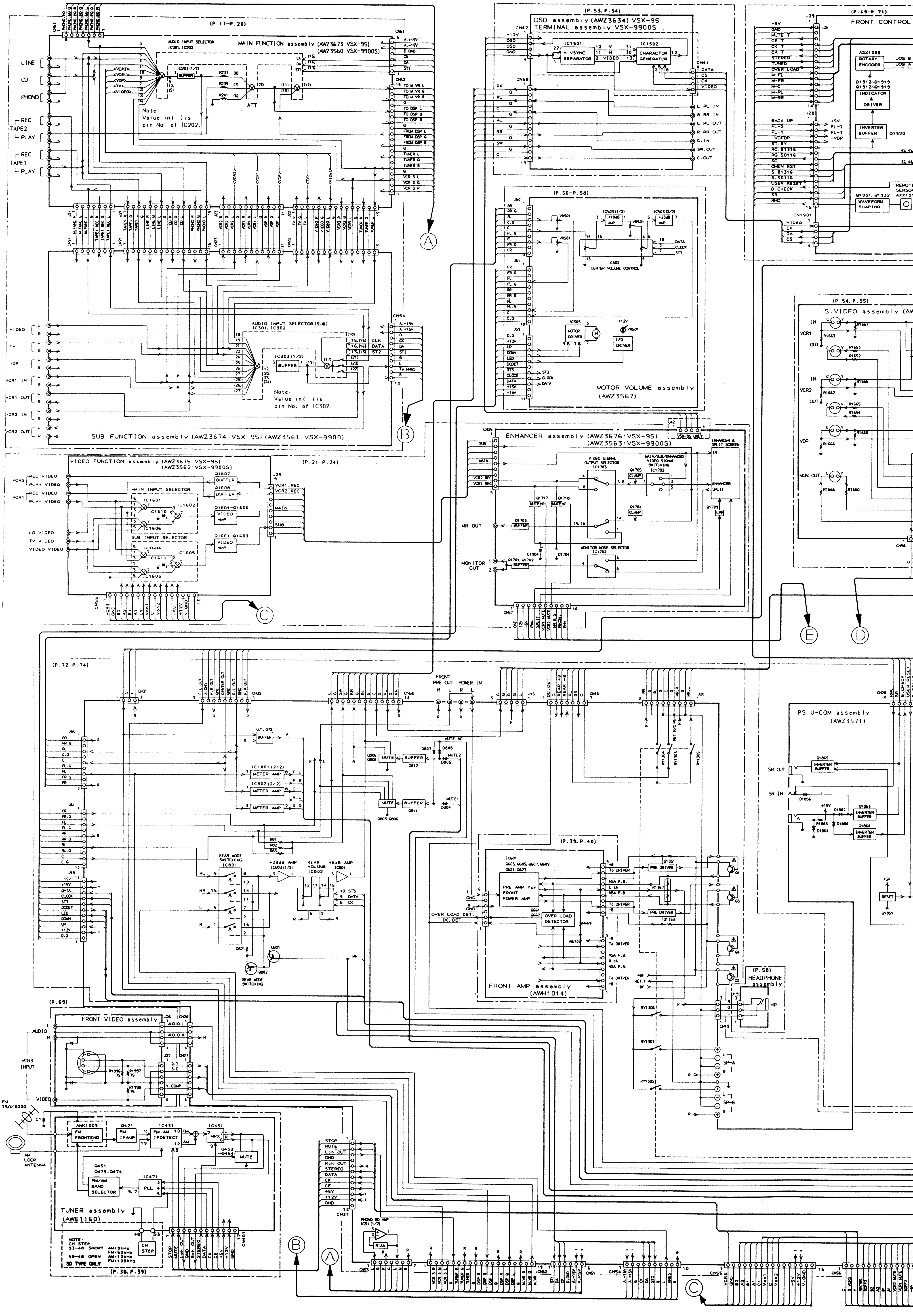

A
B
C
D
E
F
③
For VSX-9900S/SD
㊸
㊳
㊻


For VSX
V
Volta
sel
For VSX-9900S/SD

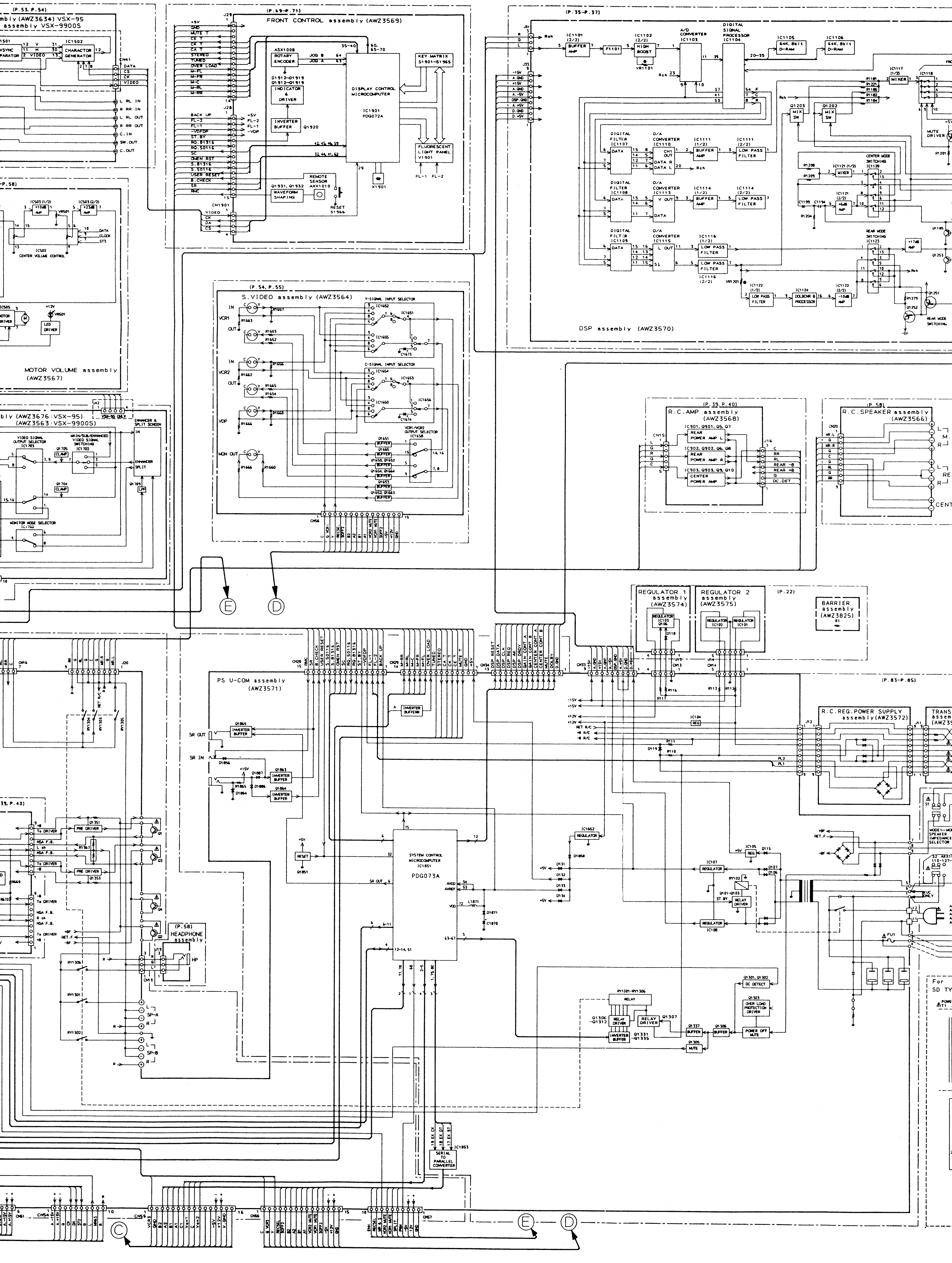

For VSX－9900S/SD
Voltage selector (S4)
Strain relief
Rear panel
Voltage selector (S2)
Slide SW (S3)

3. SCHEMATIC DIAGRAMS AND P.C.BOARDS CONNECTION DIAGRAM

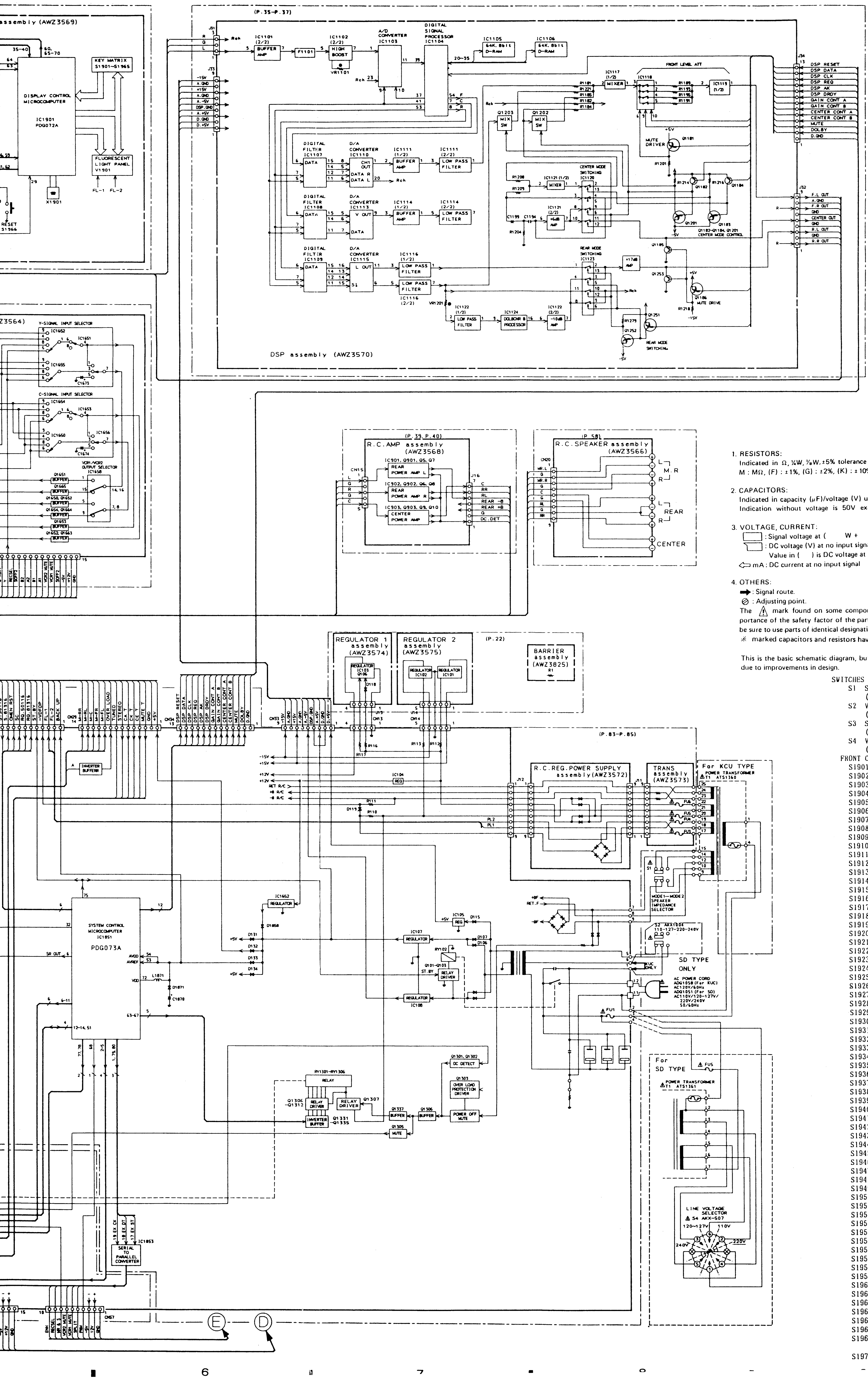
3.1 OVER ALL SCHEMATIC DIAGRAM


MAIN FUNCTION assembly (AWZ3673:VSX-95) (AWZ3560:VSX-9900S)
(P.17-P.28)
AUDIO INPUT SELECTOR IC201, IC202
LINE
CD
PHONO
TAPE2 REC PLAY
TAPE1 REC PLAY
Note: Value in( )is pin No. of IC202.
ATT
SUB FUNCTION assembly (AWZ3674:VSX-95) (AWZ3561:VSX-9900)
AUDIO INPUT SELECTOR (SUB) IC301, IC302
Note: Value in( )is pin No. of IC302.
VIDEO
TV
VDP
VCR1 IN
VCR1 OUT
VCR2 IN
VCR2 OUT
VIDEO FUNCTION assembly (AWZ3675:VSX-95) (AWZ3562:VSX-9900S)
(P.21-P.24)
MAIN INPUT SELECTOR
SUB INPUT SELECTOR
LD VIDEO
TV VIDEO
VIDEO VIDEO
OSD assembly (AWZ3634) VSX-95
TERMINAL assembly VSX-9900S
(P.53, P.54)
H.VSYNC SEPARATOR
CHARACTOR GENERATOR
(P.56-P.58)
CENTER VOLUME CONTROL
MOTOR VOLUME assembly (AWZ3567)
MOTOR DRIVER
LED DRIVER
ENHANCER assembly (AWZ3676:VSX-95) (AWZ3563:VSX-9900S)
VIDEO SIGNAL OUTPUT SELECTOR
MONITOR NOISE SELECTOR
ENHANCER & SPLIT SCREEN
MR OUT
MONITOR OUT
(P.69-P.71)
FRONT CONTROL
ROTARY ENCODER
INDICATOR & DRIVER
INVERTER BUFFER
WAVEFORM SHAPING
(P.54, P.55)
S.VIDEO assembly
(P.72-P.74)
FRONT PRE OUT POWER IN
METER AMP
MUTE
BUFFER
REAR MODE SWITCHING
+29dB AMP
REAR VOLUME
+6dB AMP
(P.39, P.40)
PRE AMP for FRONT POWER AMP
OVER LOAD DETECTOR
FRONT AMP assembly (AWH1014)
(P.58) HEADPHONE assembly
HP
SP-A
SP-B
PS U-COM assembly (AWZ3571)
SR OUT
SR IN
RESET
(P.69)
FRONT VIDEO assembly
AUDIO
VCR3 INPUT
VIDEO
FM 75Ω/300Ω
AM LOOP ANTENNA
FM FRONTEND
FM IFAMP
FM,AM IFDETECT
MPX
MUTE
FM/AM BAND SELECTOR
PLL
TUNER assembly (AWE1160)
NOTE: CH STEP 53-48 SHORT AM:9kHz FM:50kHz 58-48 OPEN AM:10kHz FM:100kHz SD TYPE ONLY
CH STEP
(P.38, P.39)
PHONO EQ AMP IC51 (1/2)
RIAA
A
B
C
D
E
1
2
3
4
5

TION DIAGRAM



(P.53, P.54)
mbly (AWZ3634) VSX-95
assembly VSX-9900S
(P.69–P.71)
FRONT CONTROL assembly (AWZ3569)
DISPLAY CONTROL MICROCOMPUTER IC1901 PDG072A
ROTARY ENCODER
KEY MATRIX S1901–S1965
INDICATOR & DRIVER
INVERTER BUFFER Q1920
FLUORESCENT LIGHT PANEL V1901
REMOTE SENSOR ASX1010
WAVEFORM SHAPING
RESET S1966
(P.35–P.37)
BUFFER AMP
HIGH BOOST
A/D CONVERTER IC1103
DIGITAL SIGNAL PROCESSOR IC1104
64K, 8bit D-RAM
DIGITAL FILTER
D/A CONVERTER
LOW PASS FILTER
MIX SW
MUTE DRIVER
CENTER MODE SWITCHING
REAR MODE SWITCHING
DOLBY B PROCESSOR
DSP assembly (AWZ3570)
MOTOR VOLUME assembly (AWZ3567)
CENTER VOLUME CONTROL
LED DRIVER
(P.54, P.55)
S.VIDEO assembly (AWZ3564)
Y-SIGNAL INPUT SELECTOR
C-SIGNAL INPUT SELECTOR
VCR1/VCR2 OUTPUT SELECTOR
mbly (AWZ3676: VSX-95)
(AWZ3563: VSX-9900S)
VIDEO SIGNAL OUTPUT SELECTOR IC1703
MAIN/SUB/ENHANCED VIDEO SIGNAL SWITCHING IC1702
ENHANCER & SPLIT SCREEN
MONITOR NOISE SELECTOR IC1702
(P.39, P.40)
R.C.AMP assembly (AWZ3568)
REAR POWER AMP L
REAR POWER AMP R
CENTER POWER AMP
(P.58)
R.C.SPEAKER assembly (AWZ3566)
REGULATOR 1 assembly (AWZ3574)
REGULATOR 2 assembly (AWZ3575)
(P.22)
BARRIER assembly (AWZ3825)
PS U-COM assembly (AWZ3571)
SYSTEM CONTROL MICROCOMPUTER IC1851 PDG073A
SERIAL TO PARALLEL CONVERTER IC1853
INVERTER BUFFER
RESET
(P.83–P.85)
R.C.REG.POWER SUPPLY assembly (AWZ3572)
TRANS assem
RELAY DRIVER
DC DETECT
OVER LOAD PROTECTION DRIVER
POWER OFF MUTE
MUTE
(P.39, P.40)
PRE DRIVER
(P.58)
HEADPHONE assembly
HP
SP-A
SP-B
E
D
C


assembly (AWZ3569)
DISPLAY CONTROL MICROCOMPUTER IC1901 PDG072A
KEY MATRIX S1901–S1965
FLUORESCENT LIGHT PANEL V1901
RESET S1966
DSP assembly (AWZ3570)
(P.35–P.37)
BUFFER AMP
HIGH BOOST
A/D CONVERTER IC1103
DIGITAL SIGNAL PROCESSOR IC1104
64K. 8bit D-RAM
FRONT LEVEL ATT
MIXER
MUTE DRIVER
CENTER MODE SWITCHING
DIGITAL FILTER IC1107
D/A CONVERTER IC1110
LOW PASS FILTER
REAR MODE SWITCHING
DOLBY-B PROCESSOR
Y-SIGNAL INPUT SELECTOR
C-SIGNAL INPUT SELECTOR
R.C.AMP assembly (AWZ3568)
(P.39, P.40)
REAR POWER AMP L
REAR POWER AMP R
CENTER POWER AMP
R.C.SPEAKER assembly (AWZ3566)
(P.58)
M.R
REAR
CENTER
REGULATOR 1 assembly (AWZ3574)
REGULATOR 2 assembly (AWZ3575)
(P.22)
BARRIER assembly (AWZ3825)
(P.83–P.85)
R.C.REG.POWER SUPPLY assembly (AWZ3572)
TRANS assembly (AWZ3573)
For KCU TYPE
POWER TRANSFORMER T1 ATS1360
SPEAKER IMPEDANCE SELECTOR
SD TYPE ONLY
SYSTEM CONTROL MICROCOMPUTER IC1851 PDG073A
RELAY DRIVER
INVERTER BUFFER
OVER LOAD PROTECTION DRIVER
POWER OFF MUTE
DC DETECT
For SD TYPE
POWER TRANSFORMER T1 ATS1361
LINE VOLTAGE SELECTOR S4 AKX-507
SERIAL TO PARALLEL CONVERTER IC1853
A
B
C
D
E
F
6
7
8

1. RESISTORS:
Indicated in Ω, ¼W, ⅛W, ±5% tolerance unless otherwise noted k : kΩ, M : MΩ, (F) : ±1%, (G) : ±2%, (K) : ±10% (M); ±20% tolerance

2. CAPACITORS:
Indicated in capacity (μF)/voltage (V) unless otherwise noted p : pF Indication without voltage is 50V except electrolytic capacitor.

3. VOLTAGE, CURRENT:
▭ : Signal voltage at (W + W 8Ω)output (1kHz)
▭ : DC voltage (V) at no input signal
Value in ( ) is DC voltage at rated power.
⇦ mA : DC current at no input signal

4. OTHERS:
➡ : Signal route.
⊘ : Adjusting point.
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
※ marked capacitors and resistors have parts numbers.

This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

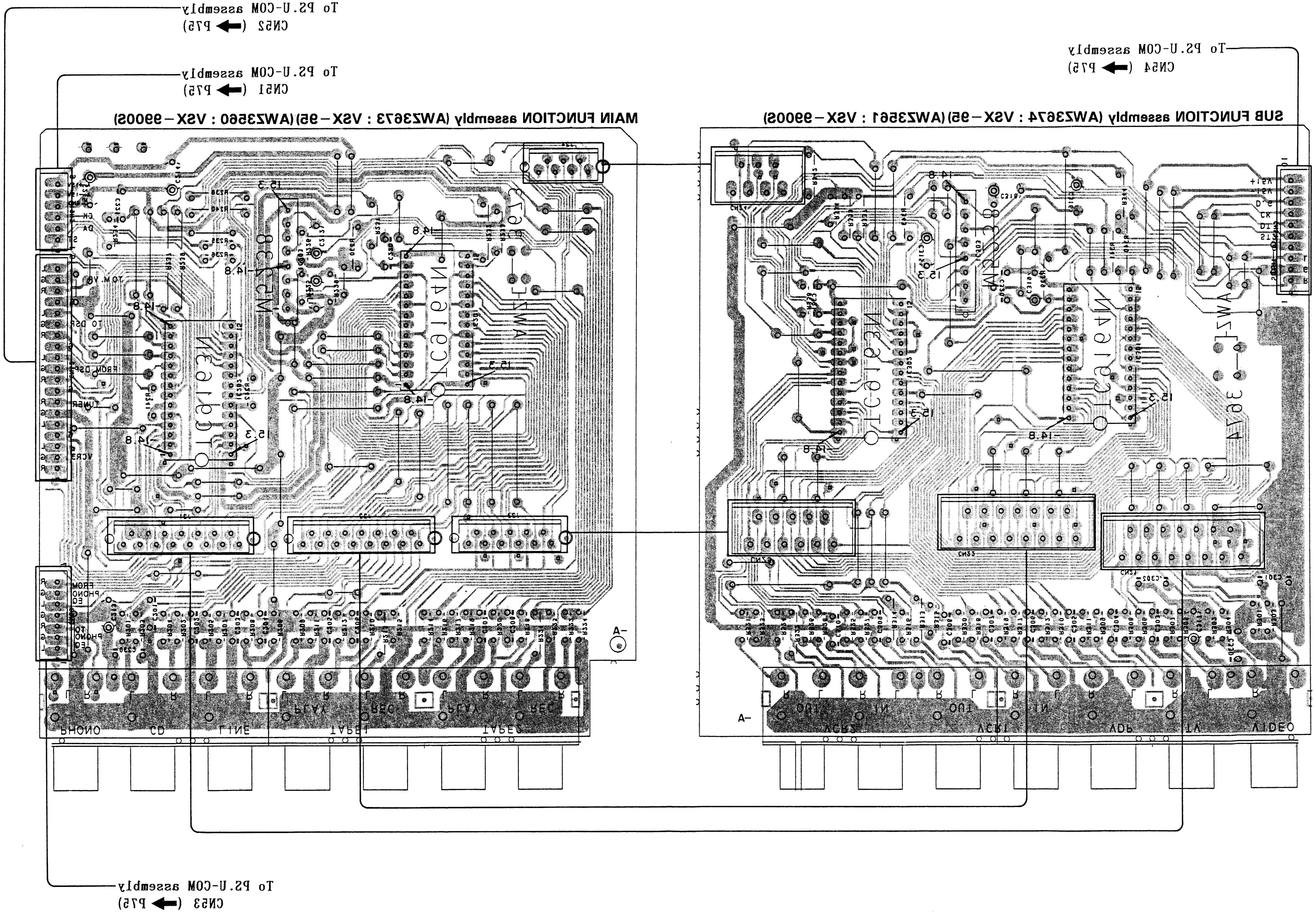
SWITCHES

S1	SPEAKER IMPEDANS SELECTOR (KUC TYPE ONLY)
S2	VOLTAGE SELECTOR SWITCH (SD TYPE ONLY)
S3	SLIDE SWITCH (SD TYPE ONLY)
S4	VOLTAGE SELECTOR SWITCH (SD TYPE ONLY)

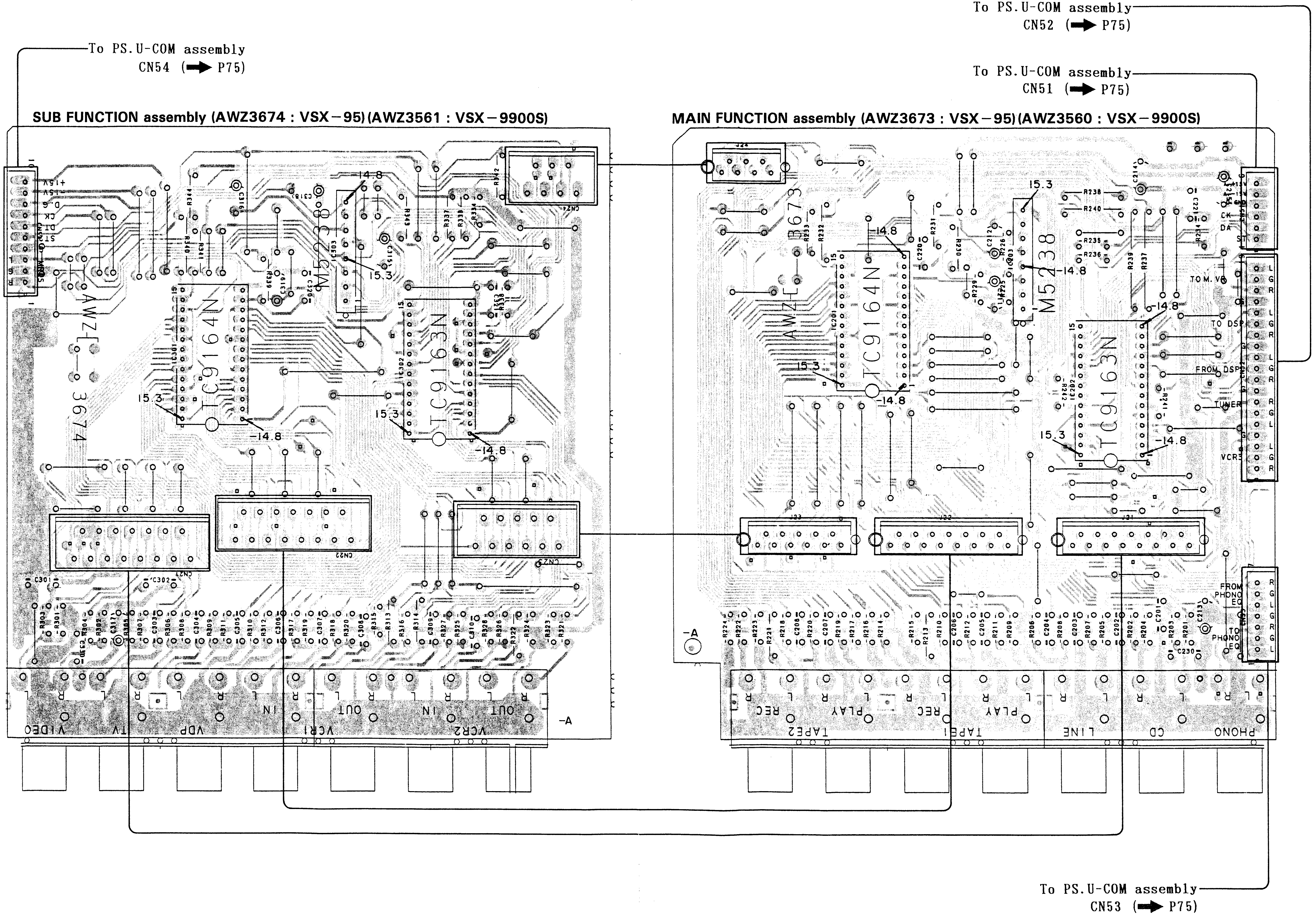
FRONT CONTROL Ass'y

S1901	3CH LOGIC
S1902	INPUT ATT
S1903	RETURN
S1904	ACO.ENH SEL
S1905	ACO.SEL
S1906	ENH SEL
S1907	S.S.
S1908	MUTING
S1909	DIRECT
S1910	SPILT ON/OFF
S1911	JDG MODE
S1912	ENH ON/OFF
S1913	HALL
S1914	PRO.LOGIC
S1915	DANCE
S1916	THEATER
S1917	CHURCH
S1918	JAZZ
S1919	CD
S1920	PHONO
S1921	TAPE 2
S1922	TUNER
S1923	- LINE
S1924	TAPE 1
S1925	TRE +
S1926	V.SEL
S1927	BASS
S1928	REC.SEL
S1929	TRE -
S1930	BASS -
S1931	HITS
S1932	BAL.L
S1933	NAME
S1934	BAL.R
S1935	DIRECT ACCESS
S1936	AUTO/MONO
S1937	CUSTOM SELECT
S1938	MEMORY
S1939	BAND
S1940	MEMORY SCAN
S1941	TUNE +
S1942	TUNE -
S1943	VCR 3
S1944	VCR 1
S1945	VIDEO
S1946	VCR 2
S1947	LD
S1948	TV
S1949	7
S1950	5
S1951	9
S1952	6
S1953	8
S1954	10
S1955	MR&S
S1956	1
S1957	4
S1958	SCENE 1
S1959	2
S1960	3
S1961	SCENE MEMO
S1962	POWER
S1963	SP-B
S1964	SCENE 2
S1965	SP-A
S1966	RESET
S1970	ROTARY ENCODER

This P.C.B. connection diagram is viewed from the foil side.


To PS.U-COM assembly
CN52 (⬅ P75)
To PS.U-COM assembly
CN51 (⬅ P75)
MAIN FUNCTION assembly (AWZ3673 : VSX-95)(AWZ3560 : VSX-9900S)
SUB FUNCTION assembly (AWZ3674 : VSX-95)(AWZ3561 : VSX-9900S)
To PS.U-COM assembly
CN54 (⬅ P75)
To PS.U-COM assembly
CN53 (⬅ P75)
IC6190
IC6191
IC6193
IC6194
TO DSP
FROM DSP
TUNER
VCR3
FROM PHONO EQ
TO PHONO EQ
PHONO
CD
LINE
PLAY
REC
TAPE1
TAPE2
VCR2
VCR1
ADP
TV
VIDEO
IN
OUT
A-
14.8
15.3
CN53
CN52
CN51
CN54

3.2 MAIN FUNCTION (AWZ3673) and SUB FUNCTION assembly (AWZ3674)



To PS.U-COM assembly
CN52 (➡ P75)

To PS.U-COM assembly
CN54 (➡ P75)

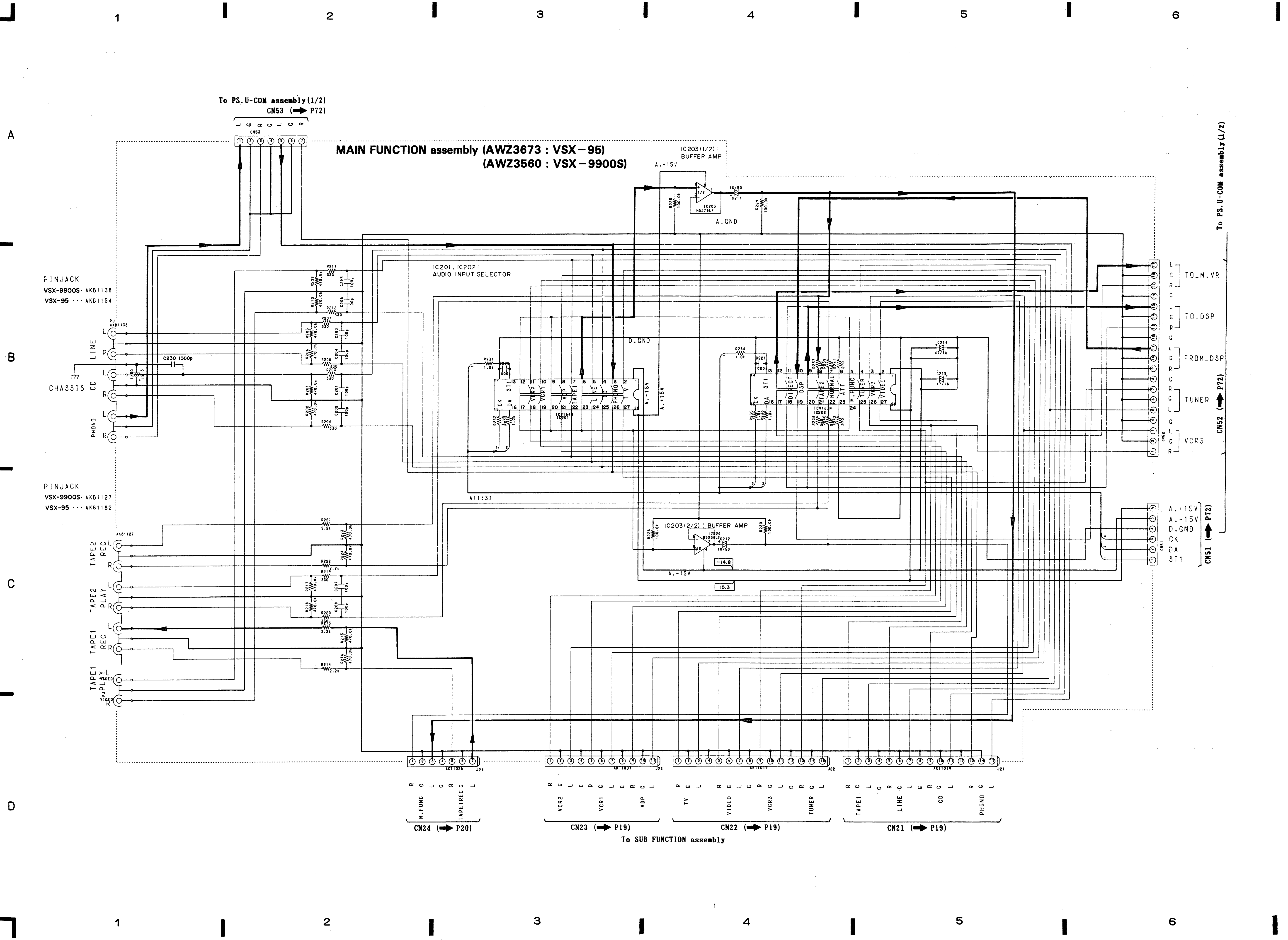
To PS.U-COM assembly
CN51 (➡ P75)

SUB FUNCTION assembly (AWZ3674 : VSX−95)(AWZ3561 : VSX−9900S)

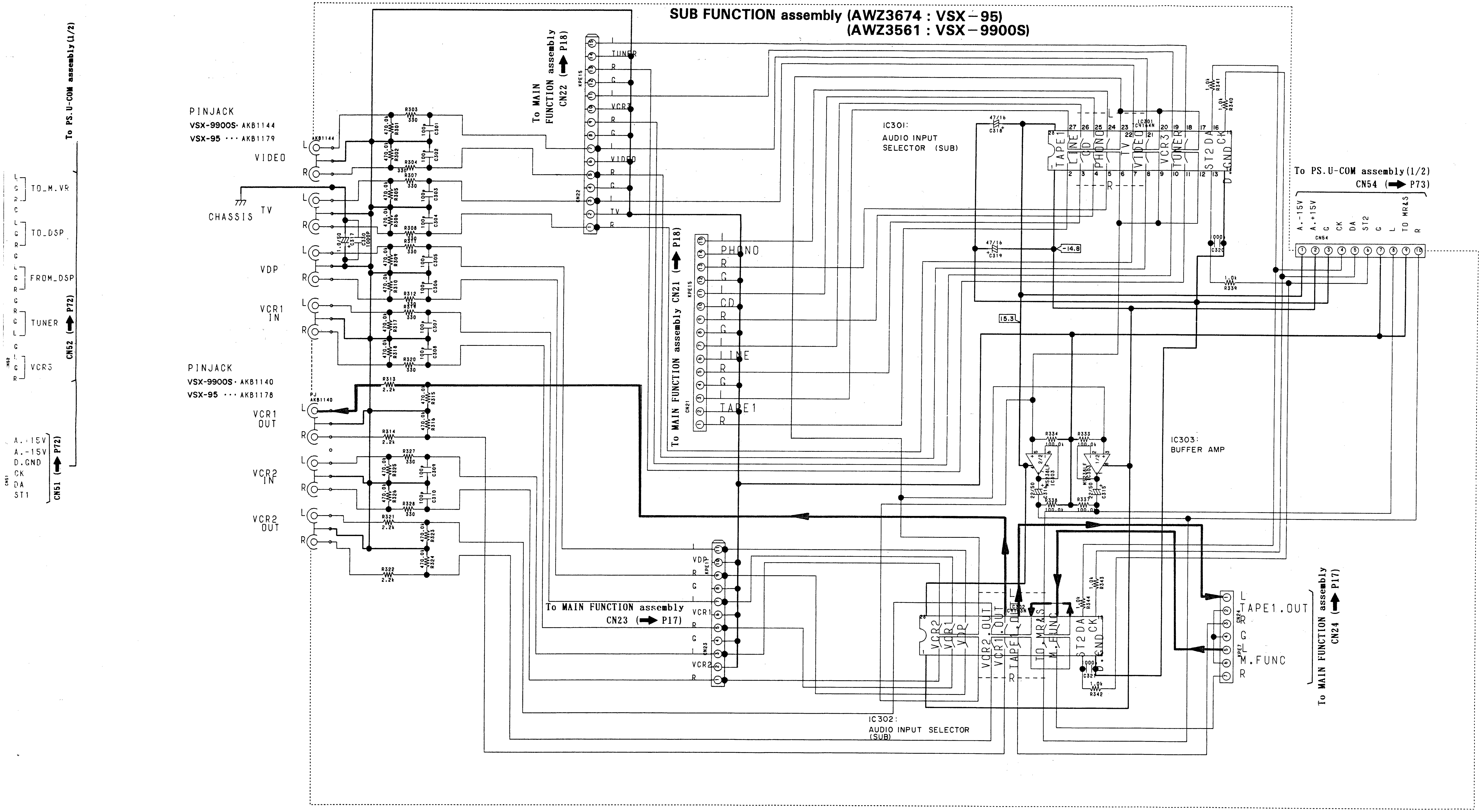
MAIN FUNCTION assembly (AWZ3673 : VSX−95)(AWZ3560 : VSX−9900S)

To PS.U-COM assembly
CN53 (➡ P75)

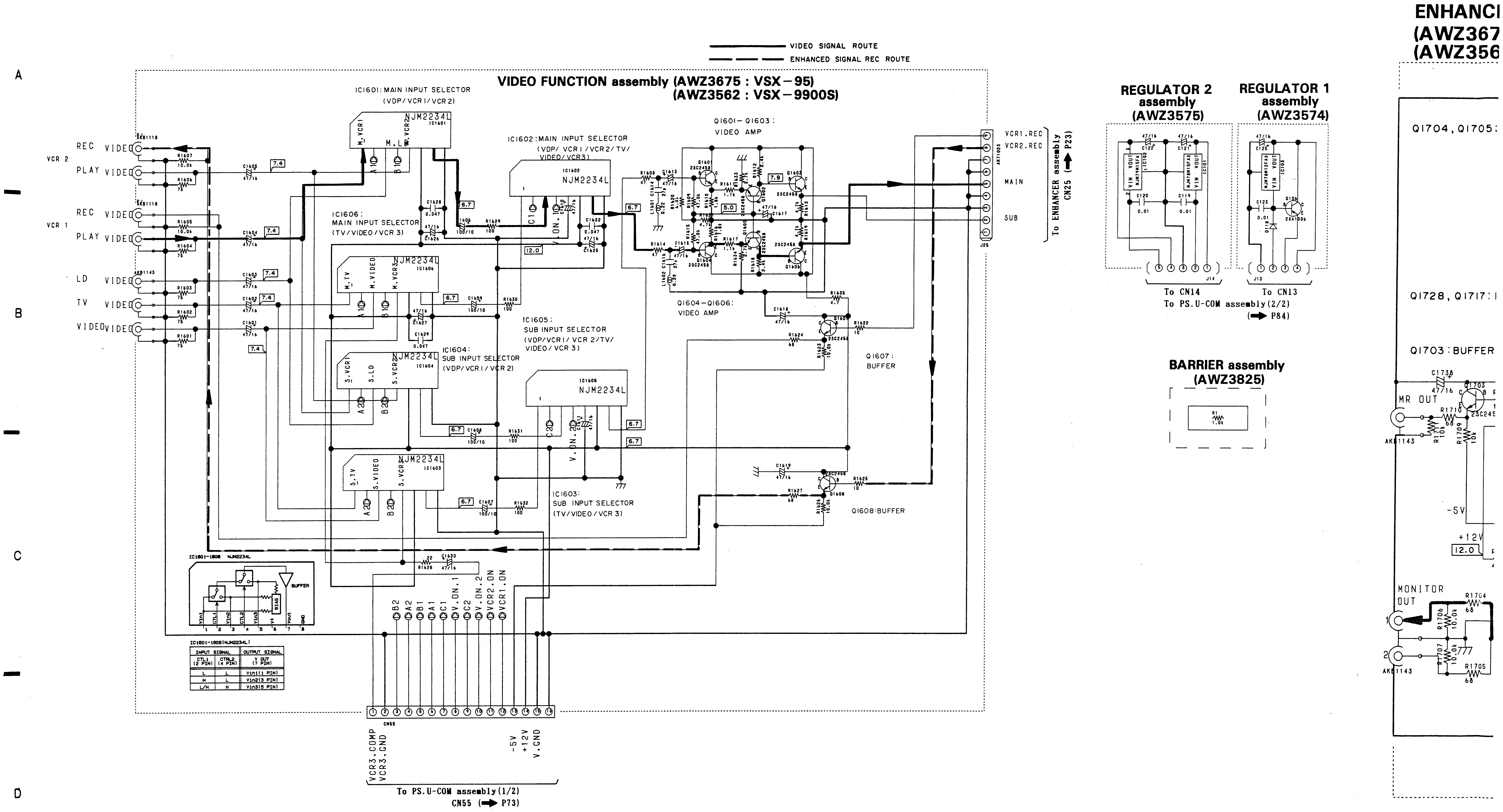
+15V
−15V
D.G
CK
DT
ST
AWZ-3674
AWZ-B673
TC9164N
TC9163N
M5238
15.3
−14.8
14.8
IC301
IC302
IC303
IC201
IC202
IC203
CN21
CN22
CN23
CN24
J21
J22
J23
J24
TOM. VR
TO DSP
FROM DSP
TUNER
VCR3
FROM PHONO EQ
TO PHONO EQ
L
G
R
VIDEO
TV
VDP
VCR1
VCR2
IN
OUT
TAPE2
TAPE1
REC
PLAY
LINE
CD
PHONO
−A


MAIN FUNCTION assembly (AWZ3673 : VSX−95)
(AWZ3560 : VSX−9900S)
To PS.U-COM assembly (1/2)
CN53 (➡ P72)
L G R G L G R
IC203 (1/2) : BUFFER AMP
A.+15V
A.GND
R225 100.0k
R229 100.0k
10/50 C211
IC203 M5218LF
IC201, IC202 : AUDIO INPUT SELECTOR
D.GND
PINJACK
VSX-9900S · AKB1138
VSX-95 ··· AKB1154
LINE
CD
PHONO
CHASSIS
C230 1000p
R211 330
R212 330
R207 330
R206 330
R203 330
R204 330
C205 100p
C206 100p
C203 100p
C204 100p
C201 100p
C202 100p
R231 1.0k
C220 1000
R232
R233 1.0k
TC9164N IC201
CK DA ST1 VCR2 VCR1 VDP TAPE1 LINE CD PHONO TV
A.−15V
A.+15V
R234 1.0k
C221 1000
R235 1.0k
R236 1.0k
R237 560
R239 560
R241 270
R238 560
R240 560
R242 270
TC9163N IC202
CK DA ST1 DIRECT DSP TAPE2 NORMAL ATT M.FUNC TUNER VCR3 VIDEO
C214 47/16
C215 47/16
A(1:3)
PINJACK
VSX-9900S · AKB1127
VSX-95 ··· AKB1182
TAPE2 REC
TAPE2 PLAY
TAPE1 REC
TAPE1 PLAY
VIDEO
R221 2.2k
R222 330
R223 2.2k
R224 470.0k
R217 470.0k
R218 470.0k
R219 330
R220 2.2k
R213 470.0k
R214 2.2k
R215 470.0k
R216 470.0k
C207 100p
C208 100p
IC203 (2/2) : BUFFER AMP
R226 100.0k
R230 100.0k
C212 10/50
−14.8
15.3
A.−15V
L G R G TO_M.VR
L G R G TO_DSP
L G R G FROM_DSP
R G L TUNER
G L G R VCR3
CN52
CN52 (⬆ P72)
A.+15V
A.−15V
D.GND
CK
DA
ST1
CN51
CN51 (⬆ P72)
AKT1026 J24
R G L G R G L
M.FUNC TAPE1REC
CN24 (➡ P20)
AKT1007 J23
R G L G R G L G R G L
VCR2 VCR1 VDP
CN23 (➡ P19)
AKT1019 J22
R G L R G L G R G L G R G L
TV VIDEO VCR3 TUNER
CN22 (➡ P19)
AKT1019 J21
R G L G R G L G R G L R G L
TAPE1 LINE CD PHONO
CN21 (➡ P19)
To SUB FUNCTION assembly
1 2 3 4 5 6
A B C D

SUB FUNCTION assembly (AWZ3674 : VSX－95)
(AWZ3561 : VSX－9900S)


To PS.U-COM assembly(1/2)
TO_M.VR
TO_DSP
FROM_DSP
TUNER
VCR3
CN52 (⬆ P72)
A.+15V
A.-15V
D.GND
CK
DA
ST1
CN51 (⬆ P72)
PINJACK
VSX-9900S· AKB1144
VSX-95 ··· AKB1179
VIDEO
TV
CHASSIS
VDP
VCR1 IN
PINJACK
VSX-9900S· AKB1140
VSX-95 ··· AKB1178
VCR1 OUT
VCR2 IN
VCR2 OUT
To MAIN FUNCTION assembly CN22 (⬆ P18)
TUNER
VCR3
VIDEO
TV
To MAIN FUNCTION assembly CN21 (⬆ P18)
PHONO
CD
LINE
TAPE1
To MAIN FUNCTION assembly CN23 (➡ P17)
VDP
VCR1
VCR2
IC301: AUDIO INPUT SELECTOR (SUB)
TAPE1 LINE CD PHONO TV VIDEO VCR3 TUNER ST2 DA CK D.GND
IC302: AUDIO INPUT SELECTOR (SUB)
VCR2 VCR1 VDP VCR2.OUT VCR1.OUT TAPE1.OUT TO MR&S M.FUNC ST2 DA CK D.GND
IC303: BUFFER AMP
To PS.U-COM assembly(1/2) CN54 (➡ P73)
A.-15V
A.+15V
G
CK
DA
ST2
G
L
TO MR&S
R
TAPE1.OUT
M.FUNC
To MAIN FUNCTION assembly CN24 (⬆ P17)
-14.8
15.3
C318 47/16
C319 47/16
C320 1000
C321 1000
R339 1.0k
R340 1.0k
R341 1.0k
R342 1.0k
R343 1.0k
R344 1.0k
R333 100.0k
R334 100.0k
R337
R338
C315 22/50
C316 22/50
R313 2.2k
R314 2.2k
R321 2.2k
R322 2.2k
R303 330
R304 330
R307 330
R308 330
R311 330
R312 330
R319 330
R320 330
R327 330
R328 330
C301 100p
C302 100p
C303 100p
C304 100p
C305 100p
C306 100p
C307 100p
C308 100p
C309 100p
C310 100p
C317 1.0/50
C330 1000P
R301 470.0k
R302 470.0k
R305 470.0k
R306 470.0k
R309 470.0k
R310 470.0k
R317 470.0k
R318 470.0k
R315 470.0k
R316 470.0k
R325 470.0k
R326 470.0k
R323 470.0k
R324 470.0k
KPE15
KPE17
CN22
CN21
CN23
CN24
CN54

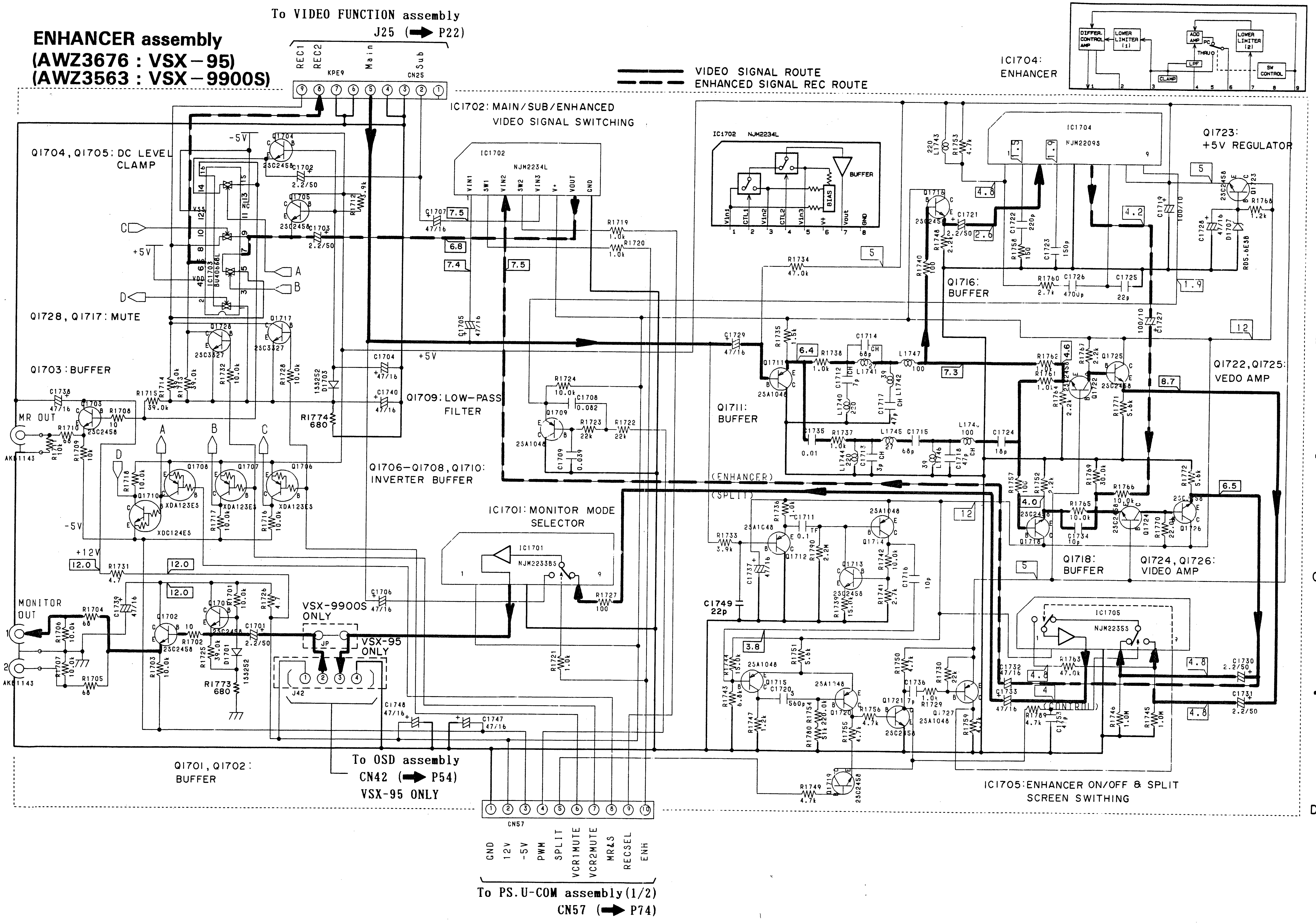
3.3 VIDEO FUNCTION (AWZAWZ3675), REGULATOR 1 (AWZAWZ3574), REGULATOR 2 (AWZ3575), ENHANCER (AWZ3676) and BARRIER assembly (AWZ3825)


ENHANCI
(AWZ367
(AWZ356
VIDEO SIGNAL ROUTE
ENHANCED SIGNAL REC ROUTE
VIDEO FUNCTION assembly (AWZ3675 : VSX−95)
(AWZ3562 : VSX−9900S)
IC1601: MAIN INPUT SELECTOR
(VDP/VCR1/VCR2)
NJM2234L
IC1601
M.VCR1
M.LD
M.VCR2
IC1602: MAIN INPUT SELECTOR
(VDP/VCR1/VCR2/TV/VIDEO/VCR3)
IC1602
NJM2234L
C1
V.ON.1
IC1606:
MAIN INPUT SELECTOR
(TV/VIDEO/VCR 3)
IC1606
M.TV
M.VIDEO
M.VCR3
IC1604:
SUB INPUT SELECTOR
(VDP/VCR1/VCR2)
IC1604
S.VCR1
S.LD
S.VCR2
IC1605:
SUB INPUT SELECTOR
(VDP/VCR1/VCR2/TV/VIDEO/VCR3)
IC1605
NJM2234L
C2
V.ON.2
IC1603:
SUB INPUT SELECTOR
(TV/VIDEO/VCR 3)
IC1603
S.TV
S.VIDEO
S.VCR3
A1
B1
A2
B2
VCR 2
REC VIDEO
PLAY VIDEO
VCR 1
REC VIDEO
PLAY VIDEO
LD VIDEO
TV VIDEO
VIDEO VIDEO
AKB1118
AKB1143
R1607 10.0k
R1606 75
R1605 10.0k
R1604 75
R1603 75
R1602 75
R1601 75
C1605 47/16
C1604 47/16
C1603 47/16
C1602 47/16
C1601 47/16
7.4
6.7
12.0
7.9
5.0
C1628 0.047
C1626 47/16
C1627 47/16
C1629 0.047
C1632 0.047
C1625 47/16
R1629 100
R1630 100
R1631 100
R1632 100
C1606 100/10
C1609 100/10
C1608 100/10
C1607 100/10
Q1601−Q1603:
VIDEO AMP
Q1604−Q1606:
VIDEO AMP
Q1601 2SC2458
Q1602 2SC2458
Q1603 2SC2458
Q1604 2SC2458
Q1605 2SC2458
Q1606 2SC2458
R1608 47
R1614 47
C1613 47/16
C1615 47/16
C1617 47/16
L1601
L1602
C1614
C1616
R1609
R1610
R1611
R1612
R1613
R1615
R1616
R1617
R1618
R1619
R1620
R1633
R1634
R1635 4.7
C1618 47/16
Q1607 2SC2458
Q1607:
BUFFER
R1622 10
R1624 68
R1623 10.0k
C1619 47/16
Q1608 2SC2458
Q1608: BUFFER
R1625 10
R1627 68
R1626 10.0k
R1628 22
C1630 47/16
VCR1.REC
VCR2.REC
MAIN
SUB
J25
AKT1023
To ENHANCER assembly
CN25 (➡ P23)
B2
A2
B1
A1
C1
V.ON.1
C2
V.ON.2
VCR2.ON
VCR1.ON
CN55
VCR3.COMP
VCR3.GND
−5V
+12V
V.GND
To PS.U-COM assembly (1/2)
CN55 (➡ P73)
IC1601−1606 NJM2234L
BUFFER
BIAS
Vin1
CTL1
Vin2
CTL2
Vin3
V+
Vout
GND
1 2 3 4 5 6 7 8
REGULATOR 2
assembly
(AWZ3575)
REGULATOR 1
assembly
(AWZ3574)
C122 47/16
C121 47/16
IC102 NJM79M15FA
IC101 NJM78M15FA
VIN VOUT
C120 0.01
C119 0.01
C125 47/16
IC103 NJM78M12FA
C123 0.01
Q101 2SA1306
D101
J14
J13
To CN14
To CN13
To PS.U-COM assembly (2/2)
(➡ P84)
BARRIER assembly
(AWZ3825)
R1 1.0k
Q1704, Q1705:
Q1728, Q1717:
Q1703: BUFFER
C1738 47/16
Q1703 2SC245
MR OUT
R1710 68
R1711 10k
R1709 10k
AKB1143
−5V
+12V
12.0
MONITOR OUT
R1704 68
R1706 10.0k
R1707 10.0k
R1705 68
A
B
C
D

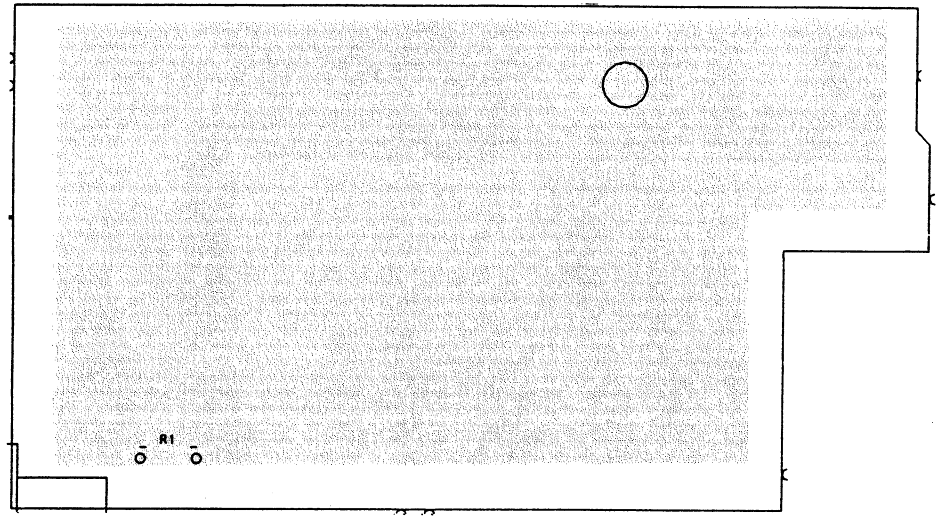
IC1601−1606 (NJM2234L)

INPUT SIGNAL		OUTPUT SIGNAL
CTL1 (2 PIN)	CTRL2 (4 PIN)	V OUT (7 PIN)
L	L	Vin1 (1 PIN)
H	L	Vin2 (3 PIN)
L/H	H	Vin3 (5 PIN)

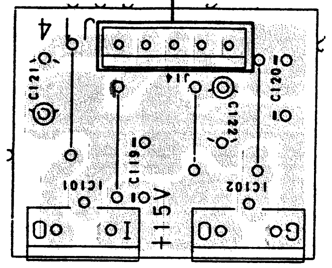
ENHANCER assembly
(AWZ3676 : VSX−95)
(AWZ3563 : VSX−9900S)


To VIDEO FUNCTION assembly
J25 (➡ P22)
REC1
REC2
Main
Sub
KPE9
CN25
VIDEO SIGNAL ROUTE
ENHANCED SIGNAL REC ROUTE
IC1704: ENHANCER
IC1704 NJM2209S
DIFFER. CONTROL AMP
LOWER LIMITER (1)
ADD AMP
PC
THRU
LOWER LIMITER (2)
LPF
CLAMP
SW CONTROL
IC1702: MAIN/SUB/ENHANCED VIDEO SIGNAL SWITCHING
IC1702 NJM2234L
VIN1
SW1
VIN2
SW2
VIN3
V+
VOUT
GND
CTL1
CTL2
BIAS
BUFFER
Q1704, Q1705: DC LEVEL CLAMP
Q1728, Q1717: MUTE
Q1703: BUFFER
Q1709: LOW-PASS FILTER
Q1706–Q1708, Q1710: INVERTER BUFFER
IC1701: MONITOR MODE SELECTOR
IC1701 NJM2233BS
IC1703 BU4066BL
Q1711: BUFFER
Q1716: BUFFER
Q1718: BUFFER
Q1723: +5V REGULATOR
Q1722, Q1725: VEDO AMP
Q1724, Q1726: VIDEO AMP
IC1705: ENHANCER ON/OFF & SPLIT SCREEN SWITHING
IC1705 NJM2235S
(ENHANCER)
(SPLIT)
(CONTROL)
MR OUT
AKB1143
MONITOR OUT
Q1701, Q1702: BUFFER
VSX-9900S ONLY
VSX-95 ONLY
JP
J42
To OSD assembly
CN42 (➡ P54)
VSX-95 ONLY
CN57
GND
12V
-5V
PWM
SPLIT
VCR1MUTE
VCR2MUTE
MR&S
RECSEL
ENH
To PS.U-COM assembly (1/2)
CN57 (➡ P74)
-5V
+5V
+12V
12.0
7.5
6.8
7.4
6.4
7.3
8.7
6.5
4.0
4.6
4.8
4.2
2.6
1.5
1.9
3.8
5
12
4
2SC2458
2SC3327
2SA1048
XDA123ES
XDC124ES
1SS252
RD5.6ESB
7
8
9
10
11
12
A
B
C
D

BARRIER assembly (AWZ3825)

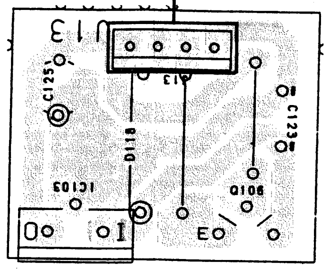


To PS.U-COM assembly
CN14 (➡ P76)


J14
C121
C120
C122
C119
IC101
IC102
+15V
I
O
G

REGULATOR 2 assembly (AWZ3575)

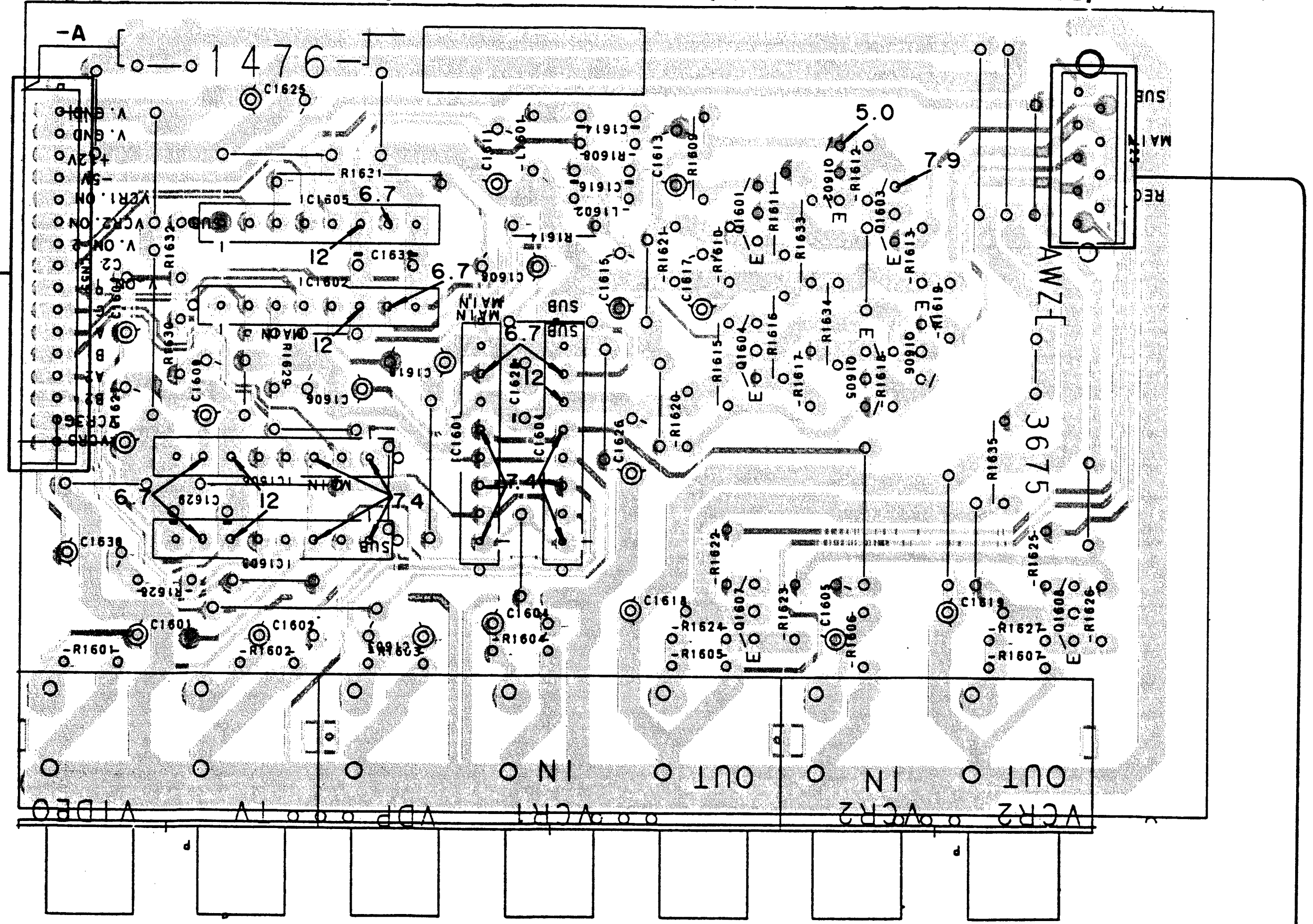
To PS.U-COM assembly
CN13 (➡ P75)


J13
C125
C123
D118
IC103
Q108
I
O
E

REGULATOR 1 assembly (AWZ3574)

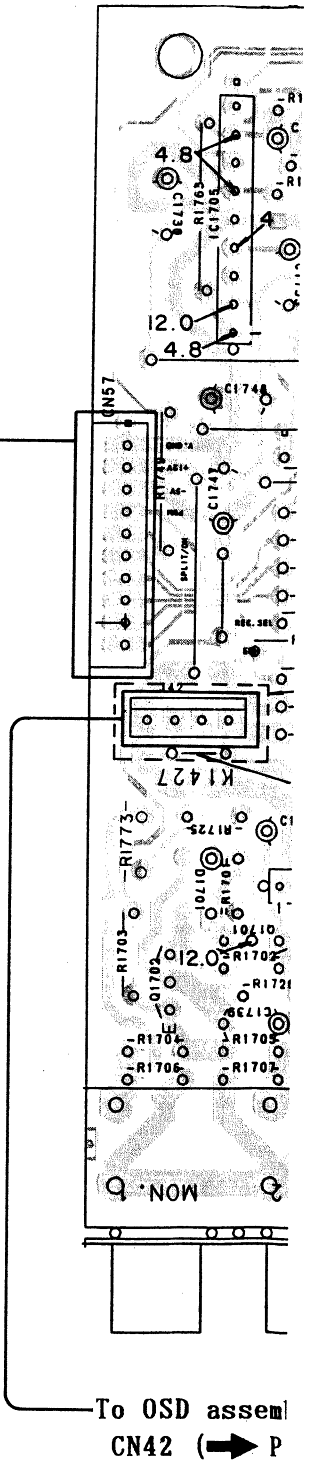
To PS.U-COM assembly
CN55 (➡ P75)

VIDEO FUNCTION assembly (AWZ3675 : VSX−95) (AWZ3562 : VSX−9900S)


-A
1476
AWZ
3675
V.GND
+12V
VCR1.ON
VCR2.ON
V.ON
MAIN
SUB
REC
5.0
7.9
6.7
12
7.4
IC1605
IC1602
IC1603
IC1601
C1625
C1638
C1601
C1602
C1604
C1618
R1601
R1602
R1604
R1605
R1621
R1624
R1627
R1607
VIDEO
TV
VDP
VCR1
VCR2
IN
OUT

To PS.U-COM assembly
CN57 (➡ P76)

ENHANCER ass


CN57
K1427
4.8
12.0
4
R1703
R1706
R1707
R1705
R1725
R1773
IC1705
C1748
MON.

To OSD asseml
CN42 (➡ P

NOTE

1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
E○ Q504 ○ ○	E or E	Transistor
Q215	or	Radiator type transistor
◎ D203 ○	D203	Diode
○ R237 ○	R237	Resistor
◎ C513 ○	+	Capacitor (Polarity)
C518		Capacitor (Non-polarity)

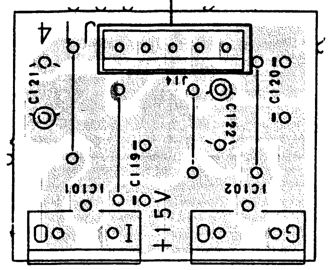
Others

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

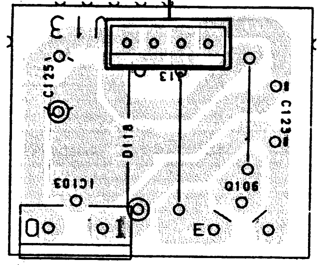
3. The capector terminal marked with ◎(double circles) shows negatine termianl.
4. The diode terminal marked with ◎ (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

y
)

To PS.U-COM assembly
CN13 (➡ P75)


J14
+15V
IC101
IC102

JLATOR 2 assembly (AWZ3575)

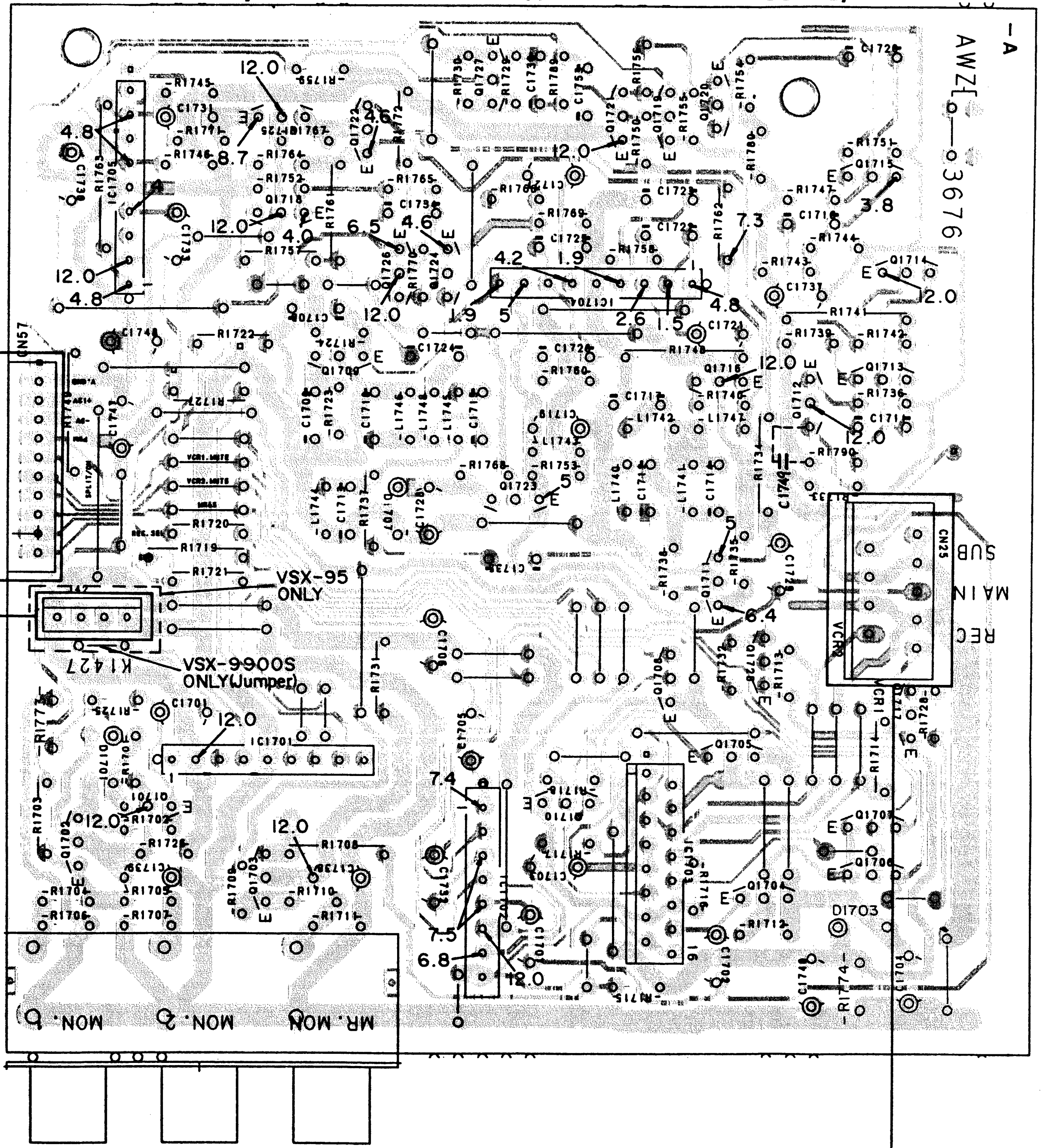

J13
IC103
D118
Q106

REGULATOR 1 assembly (AWZ3574)

PS.U-COM assembly
CN55 (➡ P75)

To PS.U-COM assembly
CN57 (➡ P76)

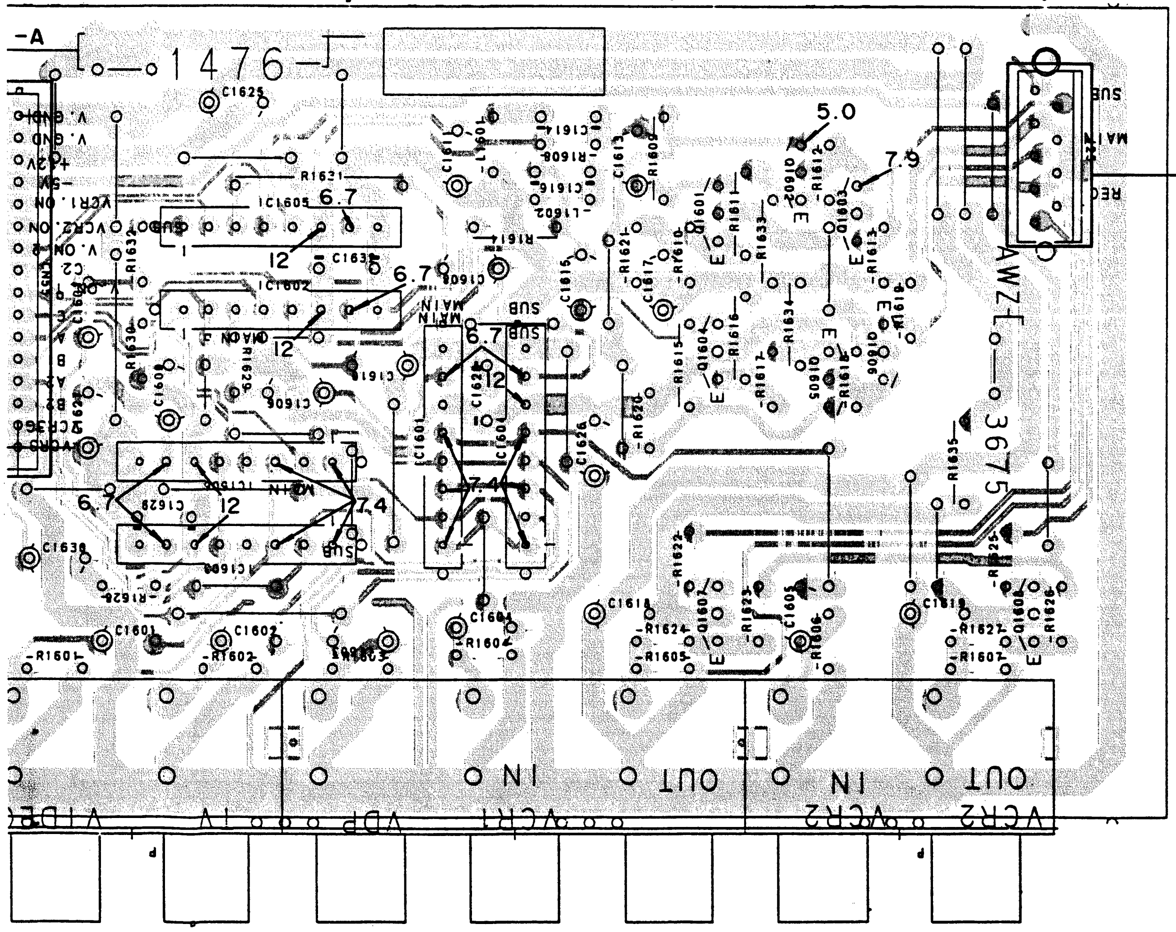
ENHANCER assembly (AWZ3676 : VSX−95)(AWZ3563 : VSX−9900S)


AWZ 3676
CN57
CN25
SUB
MAIN
REC
IC1701
IC1704
IC1703
D1703
MON.1
MON.2
MR.MON

VSX-95
ONLY

K1427
VSX-9900S
ONLY(Jumper)

IDEO FUNCTION assembly (AWZ3675 : VSX−95) (AWZ3562 : VSX−9900S)


1476
AWZ 3675
IC1605
IC1602
SUB
MAIN
REC
IN
OUT
VCR1
VCR2
VDP
TV

To OSD assembly
CN42 (➡ P25) VSX-95 ONLY

A

Q1727
Q1725 Q1720
Q1722 Q1719
Q1721
Q1715
IC1705
Q1718
Q1726 Q1714
Q1724 IC1704

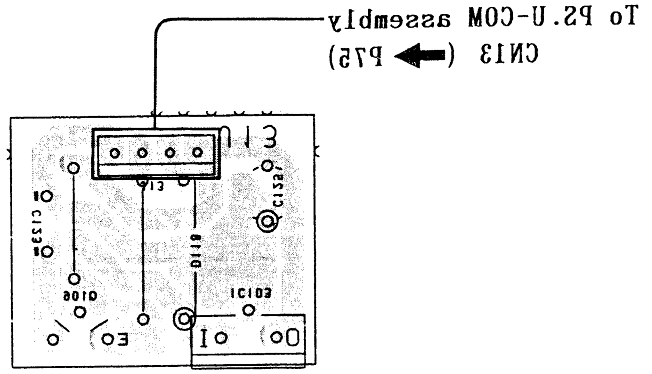
B

Q1709
Q1716
Q1713
Q1712
Q1723
Q1711
Q1728
Q1708
Q1717

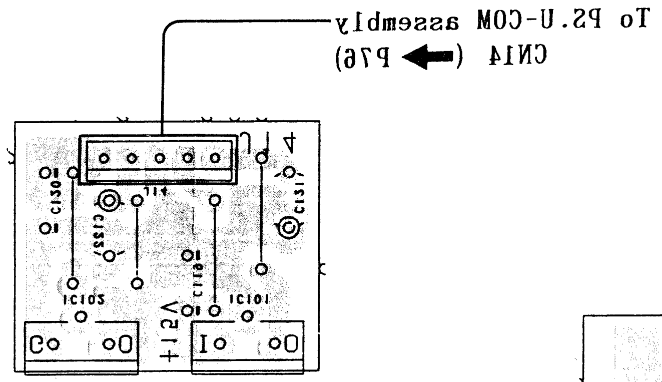
C

IC1701 Q1705
Q1701 Q1710
Q1702 Q1707
IC1703
Q1703 Q1706
Q1704
IC1702

D

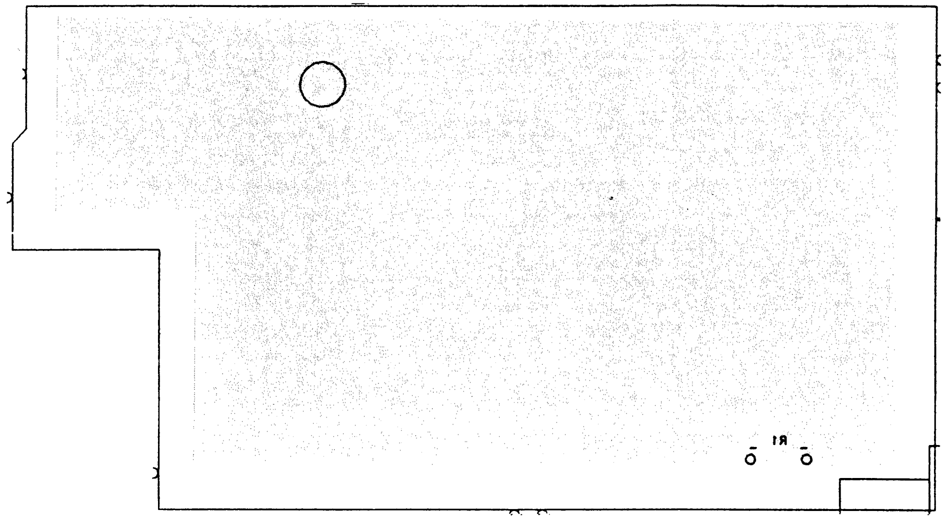

To PS.U-COM assembly
CN13 (⬅ P75)
IC103
Q106
D110
C152
C123
CN13
I O

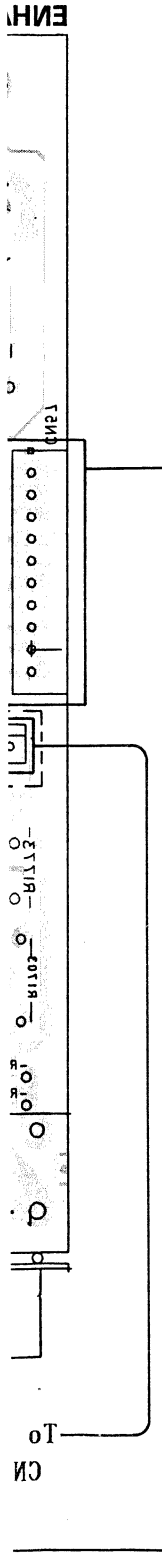
REGULATOR 1 assembly (AWZ3574)


To PS.U-COM assembly
CN14 (⬅ P76)
IC101
IC102
C130
C131
CN14
+12V
I O

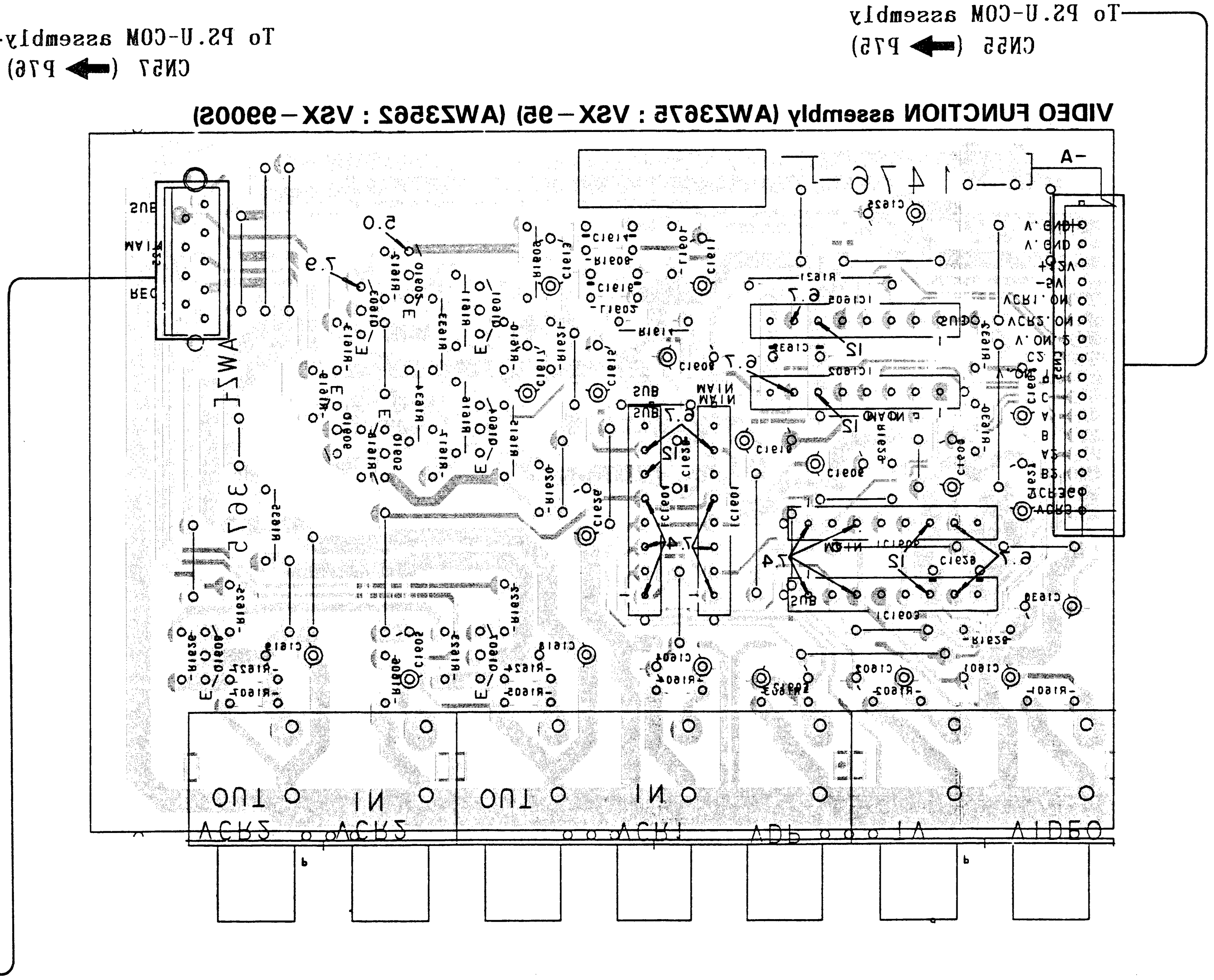
REGULATOR 2 assembly (AWZ3575)

BARRIER assembly (AWZ3825)




ENHA
CN51
To PS.U-COM assembly
CN57 (⬅ P76)
To
CN

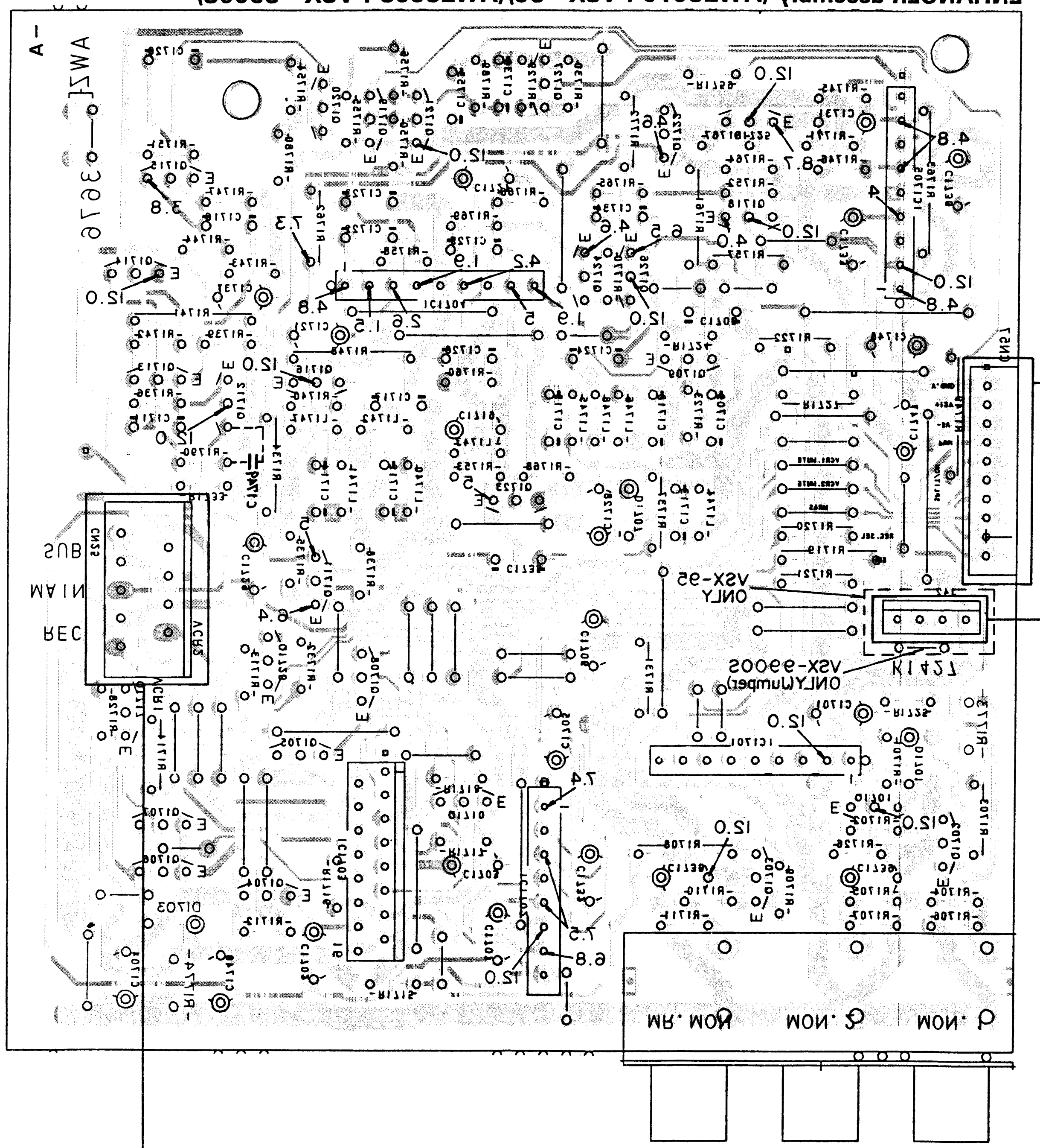
VIDEO FUNCTION assembly (AWZ3675 : VSX-95) (AWZ3562 : VSX-9900S)


To PS.U-COM assembly
CN55 (⬅ P75)
1476
3675
AWZ
SUB
MAIN
REC
IC1601
IC1602
IC1603
IC1604
IC1605
IC1606
VIDEO
V1
VDP
VCR1
IN
OUT
VCR2
IN
OUT

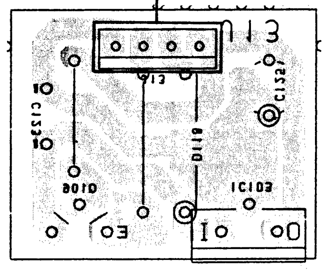
A

ENHANCER assembly (AWZ3676 : VSX-95)(AWZ3563 : VSX-9900S)

Q1727
Q1720 Q1725
Q1719 Q1722
Q1721
Q1715 IC1705
Q1718
Q1714 Q1726
IC1704 Q1724
Q1709
Q1716
Q1713
Q1712
Q1723
Q1711
Q1728
Q1708
Q1717
Q1705 IC1701
Q1710 IC1701
Q1707 Q1702
IC1703
Q1706 Q1703
Q1704 IC1702

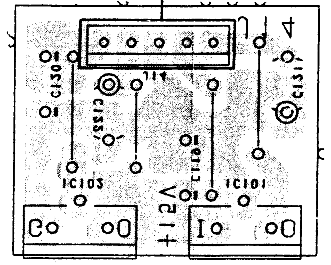

AWZ 3676
REC
MAIN
SUB
VSX-95 ONLY
VSX-9900S ONLY(Jumper)
MON.1
MON.2
MON.R

To PS.U-COM assembly
CN13 (⬅ P75)



REGULATOR 1 assembly (AWZ3674)

sembly
▶ P76)



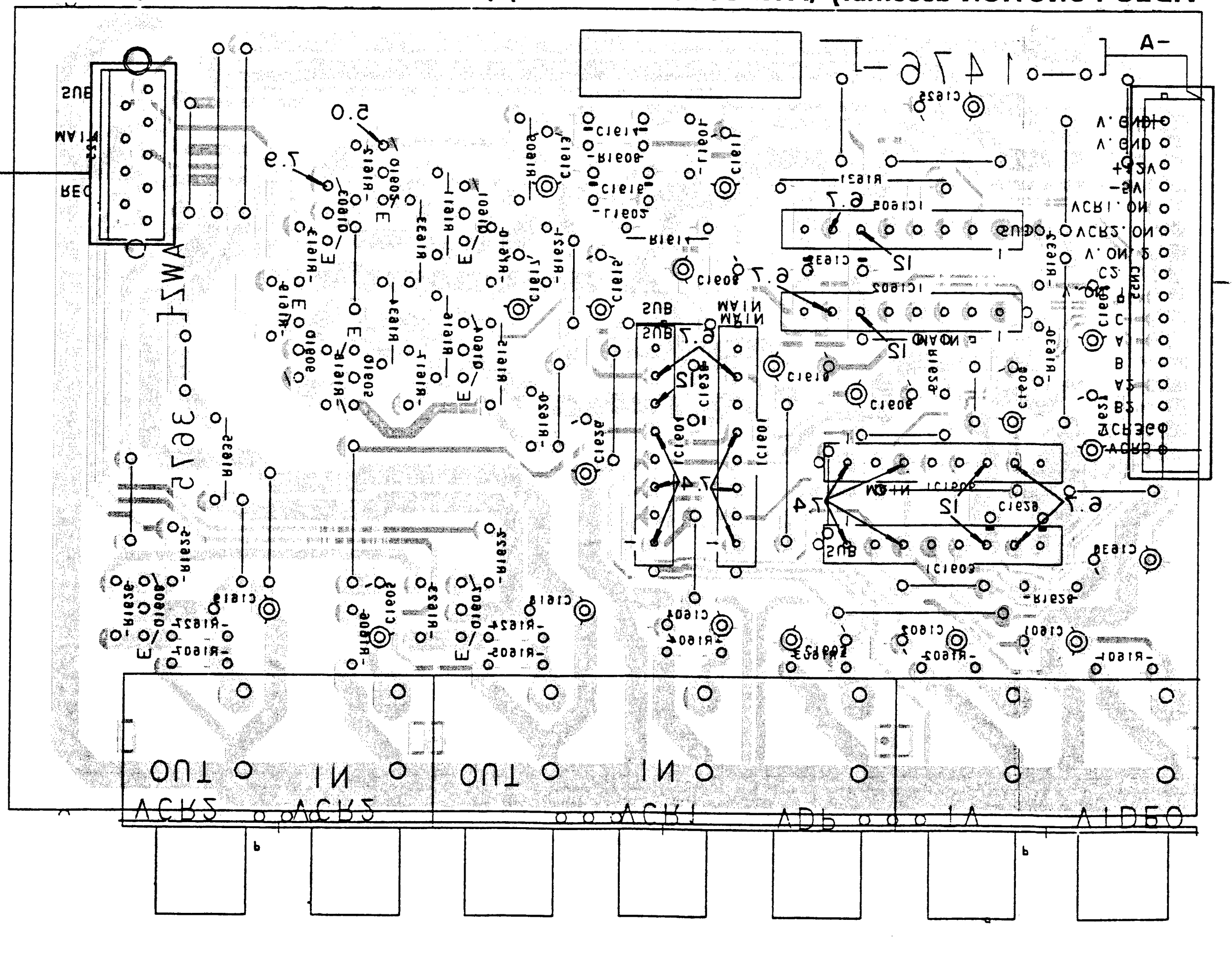
REGULATOR 2 assembly (AWZ3675)

B

To PS.U-COM assembly
CN57 (⬅ P76)

To PS.U-COM assembly
CN55 (⬅ P75)

VIDEO FUNCTION assembly (AWZ3675 : VSX-95) (AWZ3562 : VSX-9900S)

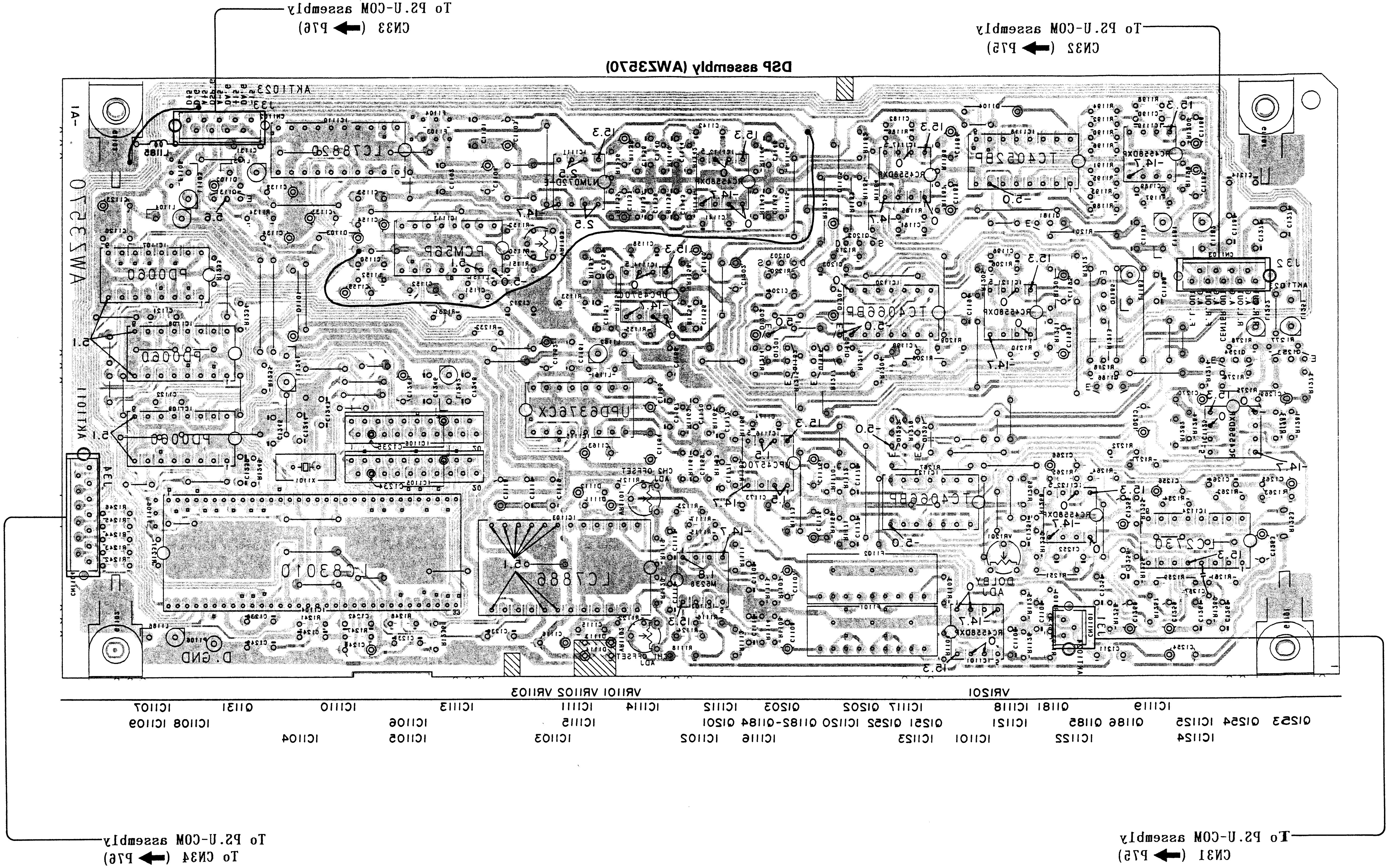

AWZ 1476
REC
MAIN
SUB
OUT
IN
VCR2
VCR1
VDP
V1
VIDEO

C

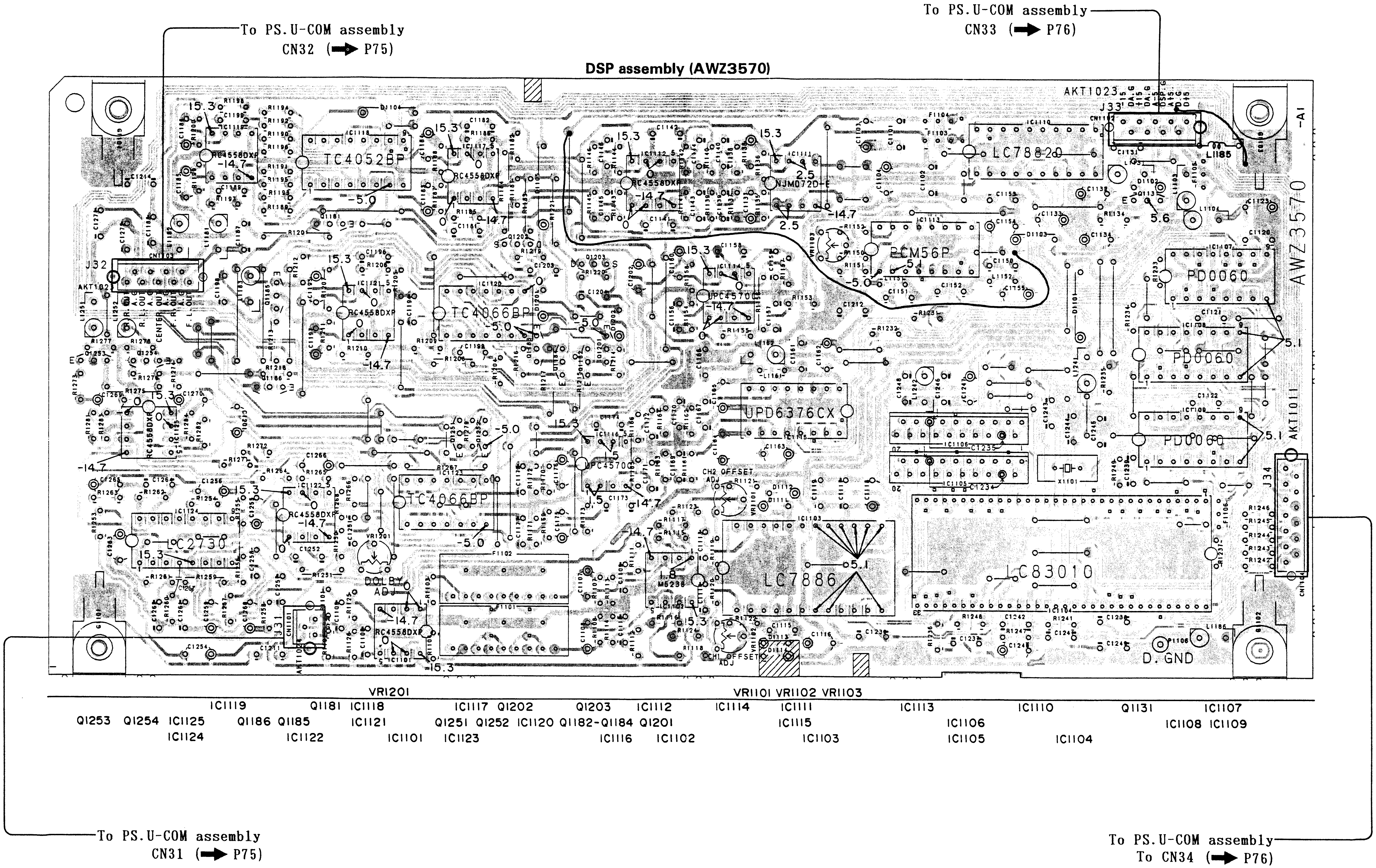
D

To OSD assembly
CN42 (⬅ P25) VSX-95 ONLY

DSP assembly (AWZ3570)


To PS.U-COM assembly
CN33 (⬅ P76)
To PS.U-COM assembly
CN32 (⬅ P75)
To PS.U-COM assembly
To CN34 (⬅ P76)
To PS.U-COM assembly
CN31 (⬅ P75)
AWZ3570
AKT1023
J31
J32
J33
LC7882
PCM56P
NJM072DE
RC4558DX
TC4052BP
PD0060
uPC4570C
TC4066BP
uPD6376CX
LC83010
LC7886
LC7230
DOLBY ADJ
CH2 OFFSET ADJ
CH1 OFFSET ADJ
D.GND
VR1201
VR1101 VR1102 VR1103
IC1119 Q1181 IC1118 IC1117 Q1202 Q1203 IC1112 IC1114 IC1111 IC1113 IC1110 Q1131 IC1107
Q1253 Q1254 IC1125 Q1186 Q1185 IC1121 Q1251 Q1252 IC1120 Q1182-Q1184 Q1201 IC1115 IC1106 IC1109 IC1108
IC1124 IC1122 IC1101 IC1123 IC1116 IC1102 IC1103 IC1105 IC1104

3.4 DSP assembly (AWZ3570)


DSP assembly (AWZ3570)
AKT1023
J33
J32
J31
J34
AWZ3570
AKT1011
TC4052BP
TC4066BP
RC4558DXP
NJM072D-E
LC78820
PCM56P
UPC4570C
PD0060
UPD6376CX
LC2730
LC7886
LC83010
M5238
X1101
DOLBY ADJ
CH1 OFFSET ADJ
CH2 OFFSET ADJ
D. GND
15.3
-14.7
-5.0
2.5
5.1
5.6
VR1201
VR1101 VR1102 VR1103
Q1253 Q1254 IC1125 IC1124
IC1119 Q1186 Q1185 IC1122
Q1181 IC1118 IC1121 IC1101
IC1117 Q1202 Q1251 Q1252 IC1120 IC1123
Q1203 Q1182-Q1184 IC1116
IC1112 Q1201 IC1102
IC1114
IC1111 IC1115 IC1103
IC1113
IC1106 IC1105
IC1110 IC1104
Q1131
IC1107 IC1108 IC1109

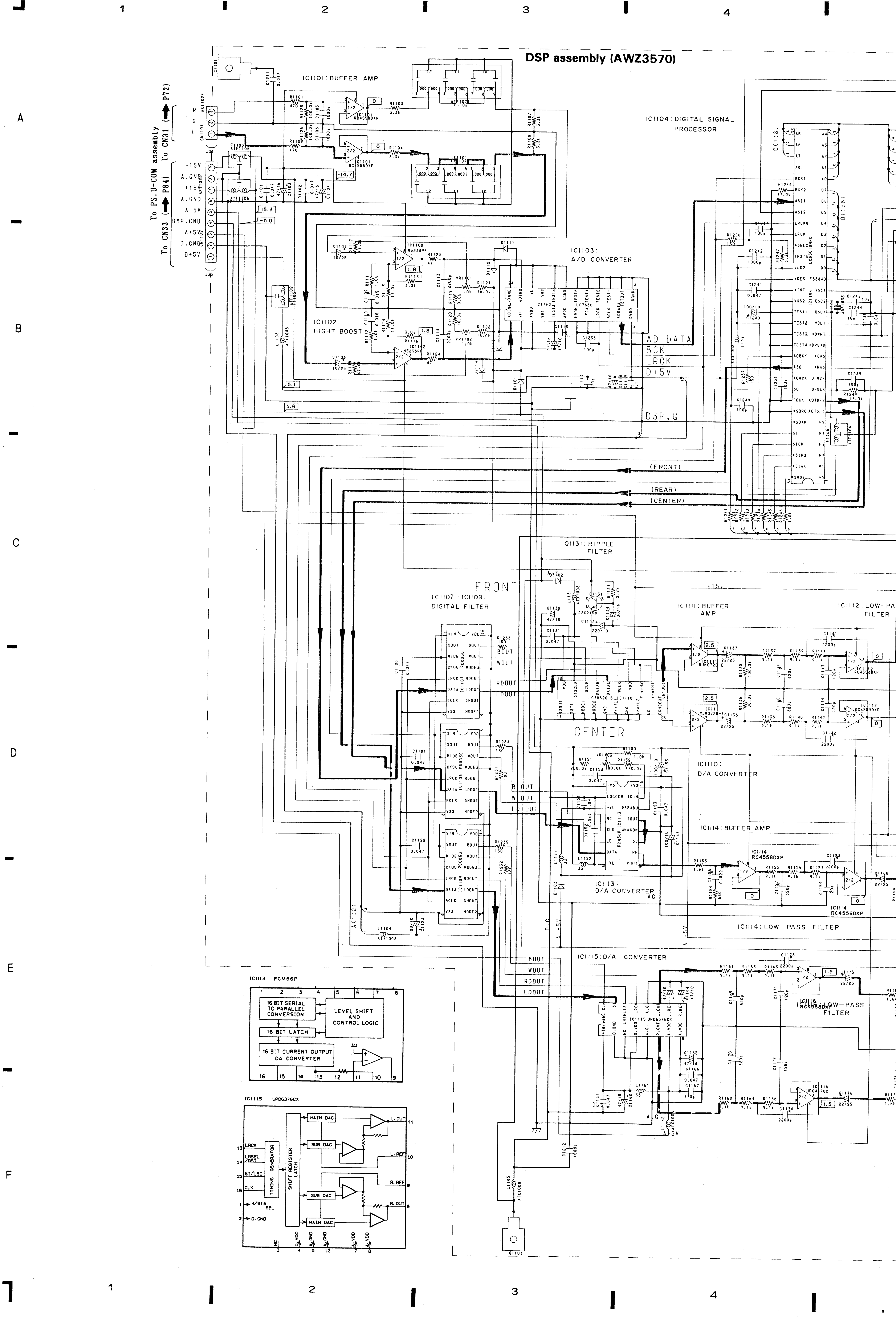
To PS.U-COM assembly
CN32 (➡ P75)

To PS.U-COM assembly
CN33 (➡ P76)

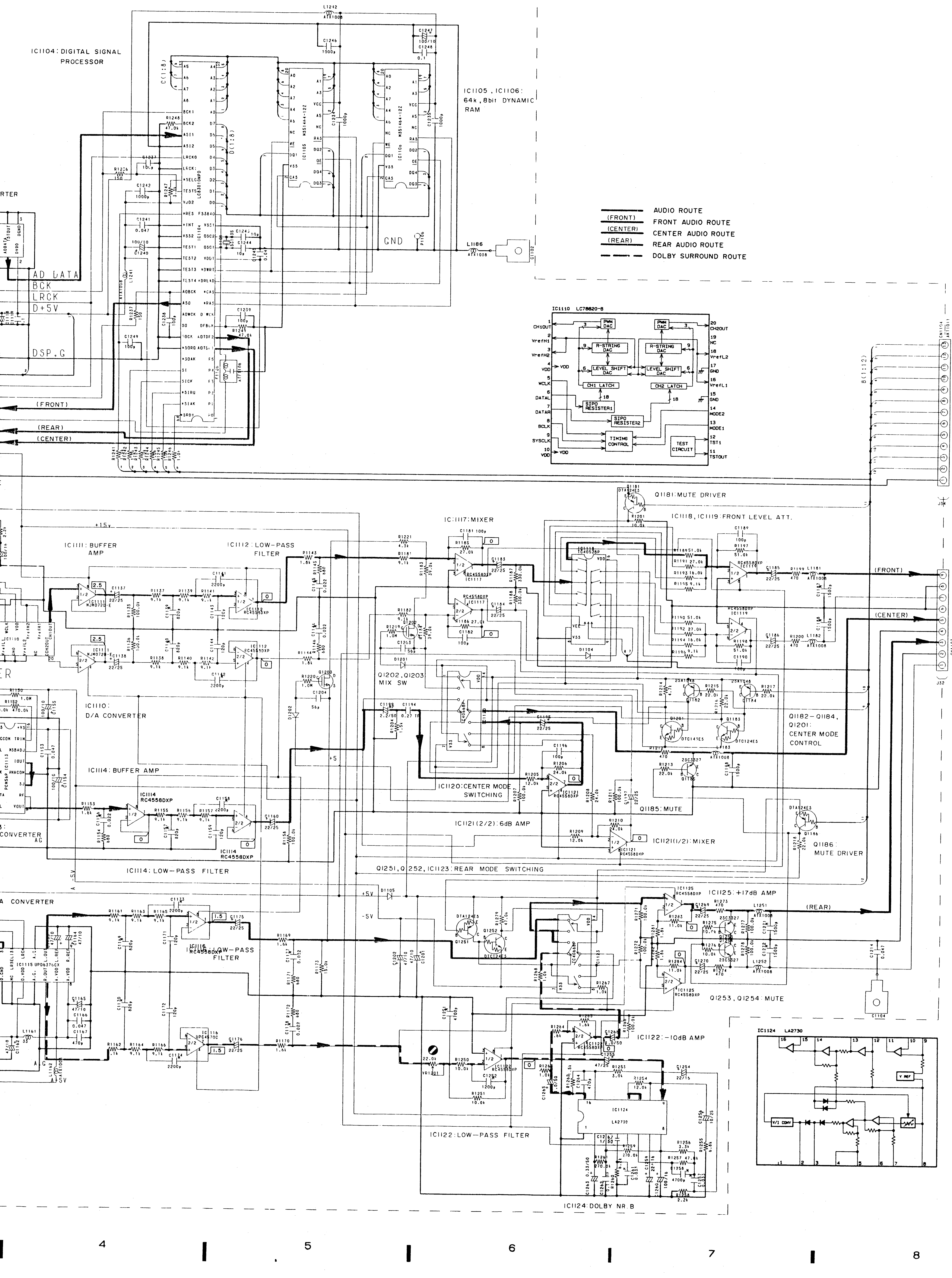
To PS.U-COM assembly
CN31 (➡ P75)

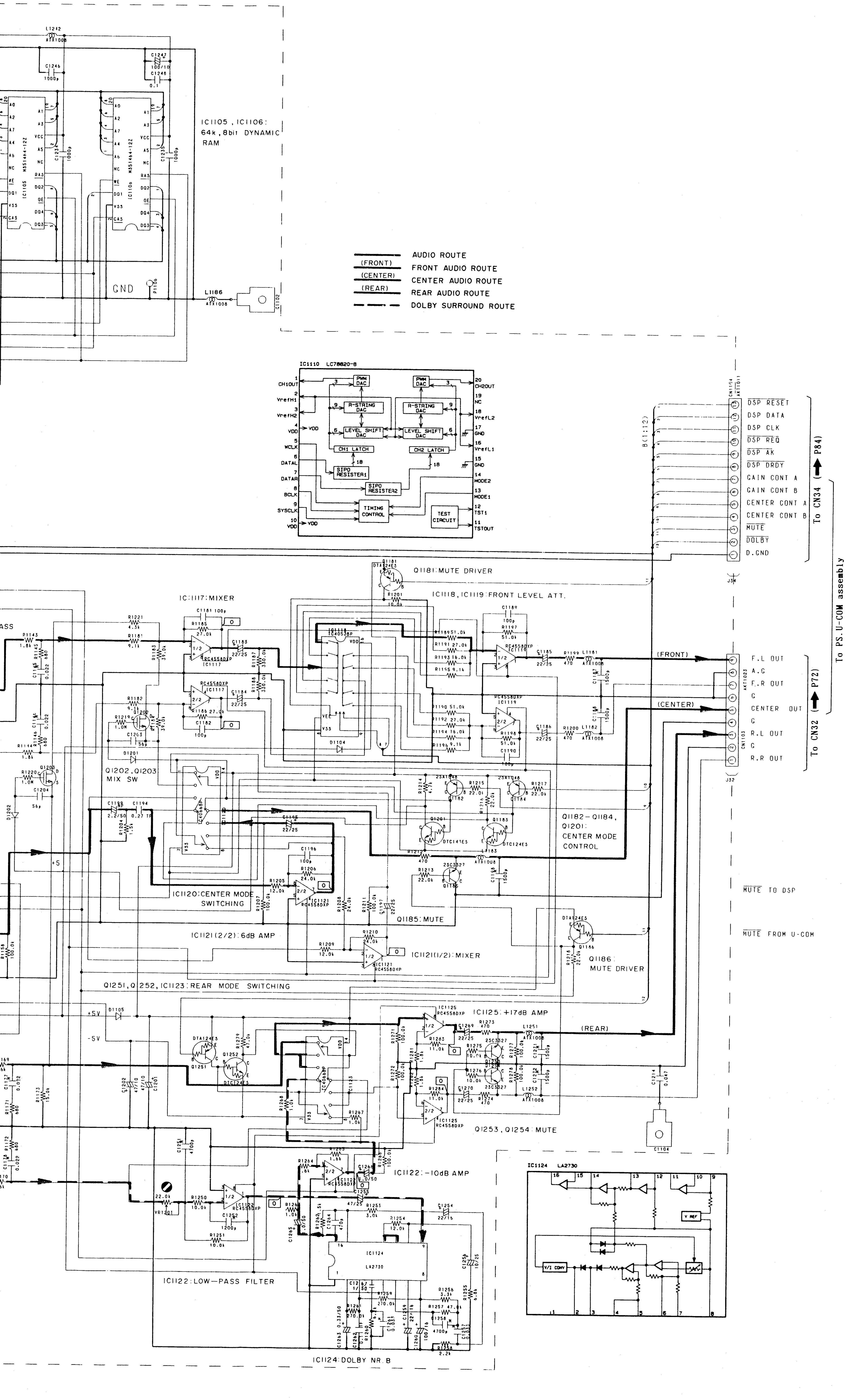
To PS.U-COM assembly
To CN34 (➡ P76)

DSP assembly (AWZ3570)

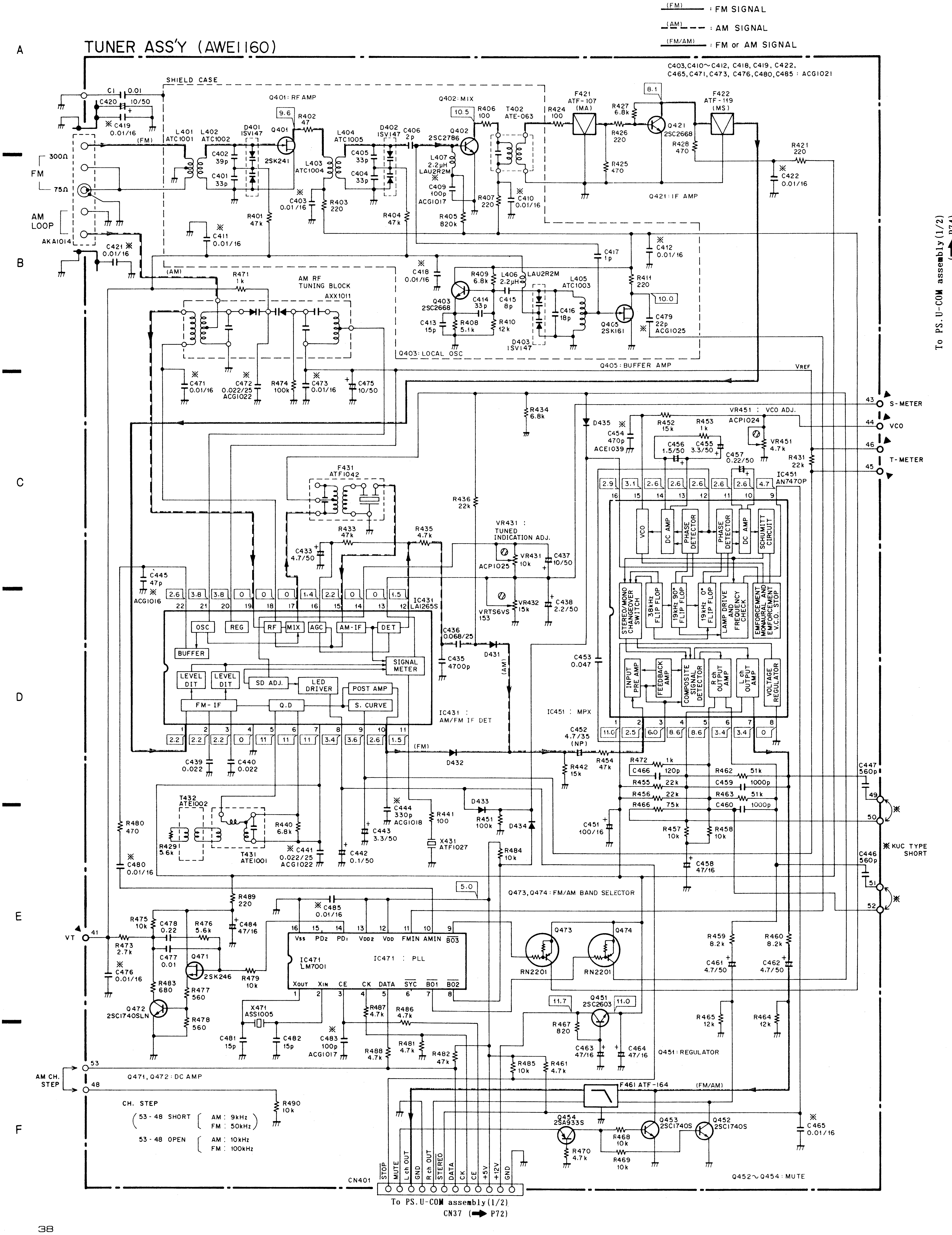

1
2
3
4
A
B
C
D
E
F
To PS.U-COM assembly
To CN31 (P72)
To CN33 (P84)
CN1101
J30
-15V
A.GND
+15V
A.GND
A-5V
DSP.GND
A+5V
D.GND
D+5V
IC1101: BUFFER AMP
RC4558DXP
IC1102: HIGHT BOOST
M5238PF
IC1103: A/D CONVERTER
LC7886
IC1104: DIGITAL SIGNAL PROCESSOR
LC83010NPD
AD DATA
BCK
LRCK
D+5V
DSP.G
(FRONT)
(REAR)
(CENTER)
Q1131: RIPPLE FILTER
2SC2458
FRONT
IC1107-IC1109: DIGITAL FILTER
PD0060
IC1110
LC78820-B
IC1110: D/A CONVERTER
IC1111: BUFFER AMP
NJM072D-E
IC1112: LOW-PASS FILTER
RC4558DXP
CENTER
IC1113: D/A CONVERTER
PCM56P
IC1114: BUFFER AMP
RC4558DXP
IC1114: LOW-PASS FILTER
IC1115: D/A CONVERTER
UPD6376CX
IC1116: LOW-PASS FILTER
RC4558DXP
UPD4570C
BOUT
WOUT
RDOUT
LDOUT
15.3
-5.0
-14.7
1.8
5.1
5.6
2.5
1.5
IC1113 PCM56P
16 BIT SERIAL TO PARALLEL CONVERSION
LEVEL SHIFT AND CONTROL LOGIC
16 BIT LATCH
16 BIT CURRENT OUTPUT DA CONVERTER
IC1115 UPD6376CX
LRCK
LRSEL/RST
SI/LSI
CLK
4/8fs SEL
D.GND
TIMING GENERATOR
SHIFT REGISTER LATCH
MAIN DAC
SUB DAC
L.OUT
L.REF
R.REF
R.OUT
NC
D.VDD
A.GND
A.VDD
C1101
C1103

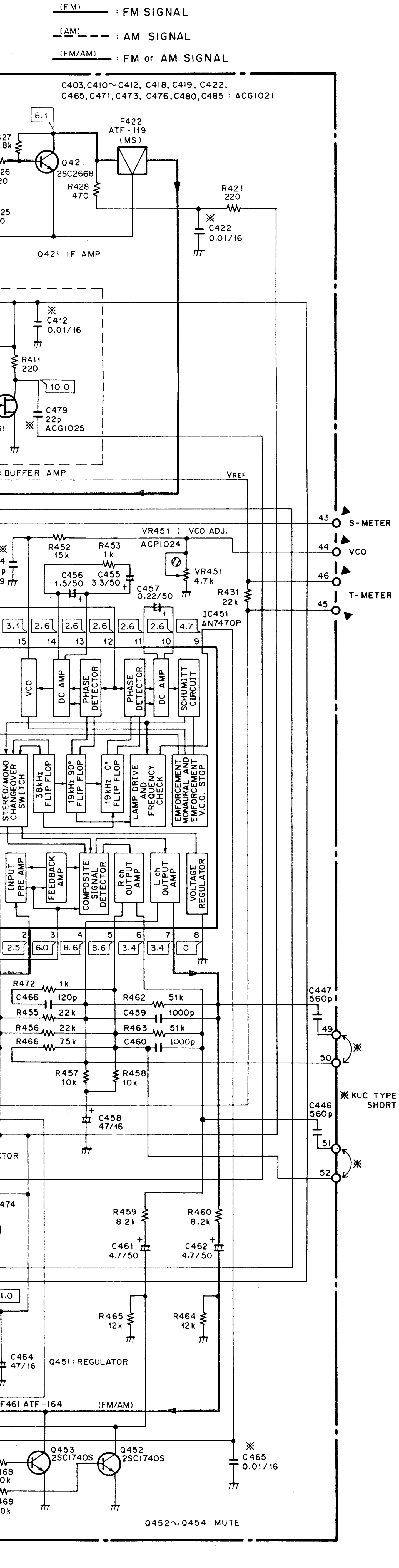
AWZ3570)


4
5
6
7
8
IC1104: DIGITAL SIGNAL PROCESSOR
IC1105, IC1106: 64k, 8bit DYNAMIC RAM
LC8301OWPD
M5S1464-12Z
AUDIO ROUTE
(FRONT) FRONT AUDIO ROUTE
(CENTER) CENTER AUDIO ROUTE
(REAR) REAR AUDIO ROUTE
DOLBY SURROUND ROUTE
GND
AD DATA
BCK
LRCK
D+5V
DSP.G
(FRONT)
(REAR)
(CENTER)
IC1110 LC78820-8
CH1OUT
VrefH1
VrefH2
VDD
WCLK
DATAL
DATAR
BCLK
SYSCLK
PWM DAC
R-STRING DAC
LEVEL SHIFT DAC
CH1 LATCH
CH2 LATCH
SIPO RESISTER1
SIPO RESISTER2
TIMING CONTROL
TEST CIRCUIT
CH2OUT
NC
VrefL2
GND
VrefL1
MODE2
MODE1
TST1
TSTOUT
Q1181: MUTE DRIVER
IC1117: MIXER
IC1118, IC1119: FRONT LEVEL ATT.
IC1111: BUFFER AMP
IC1112: LOW-PASS FILTER
Q1202, Q1203 MIX SW
IC1110: D/A CONVERTER
IC1114: BUFFER AMP
IC1120: CENTER MODE SWITCHING
Q1182–Q1184, Q1201: CENTER MODE CONTROL
Q1185: MUTE
IC1121(2/2): 6dB AMP
IC1121(1/2): MIXER
Q1186: MUTE DRIVER
CONVERTER
IC1114: LOW-PASS FILTER
Q1251, Q1252, IC1123: REAR MODE SWITCHING
A CONVERTER
IC1116: LOW-PASS FILTER
IC1125: +17dB AMP
Q1253, Q1254: MUTE
IC1122: -10dB AMP
IC1122: LOW-PASS FILTER
IC1124: DOLBY NR.B
IC1124 LA2730
IC1115 UPD6376CX
+15V
+5V
-5V
A+5V
J32
J34
CN1101
CN1104
C1102
C1104

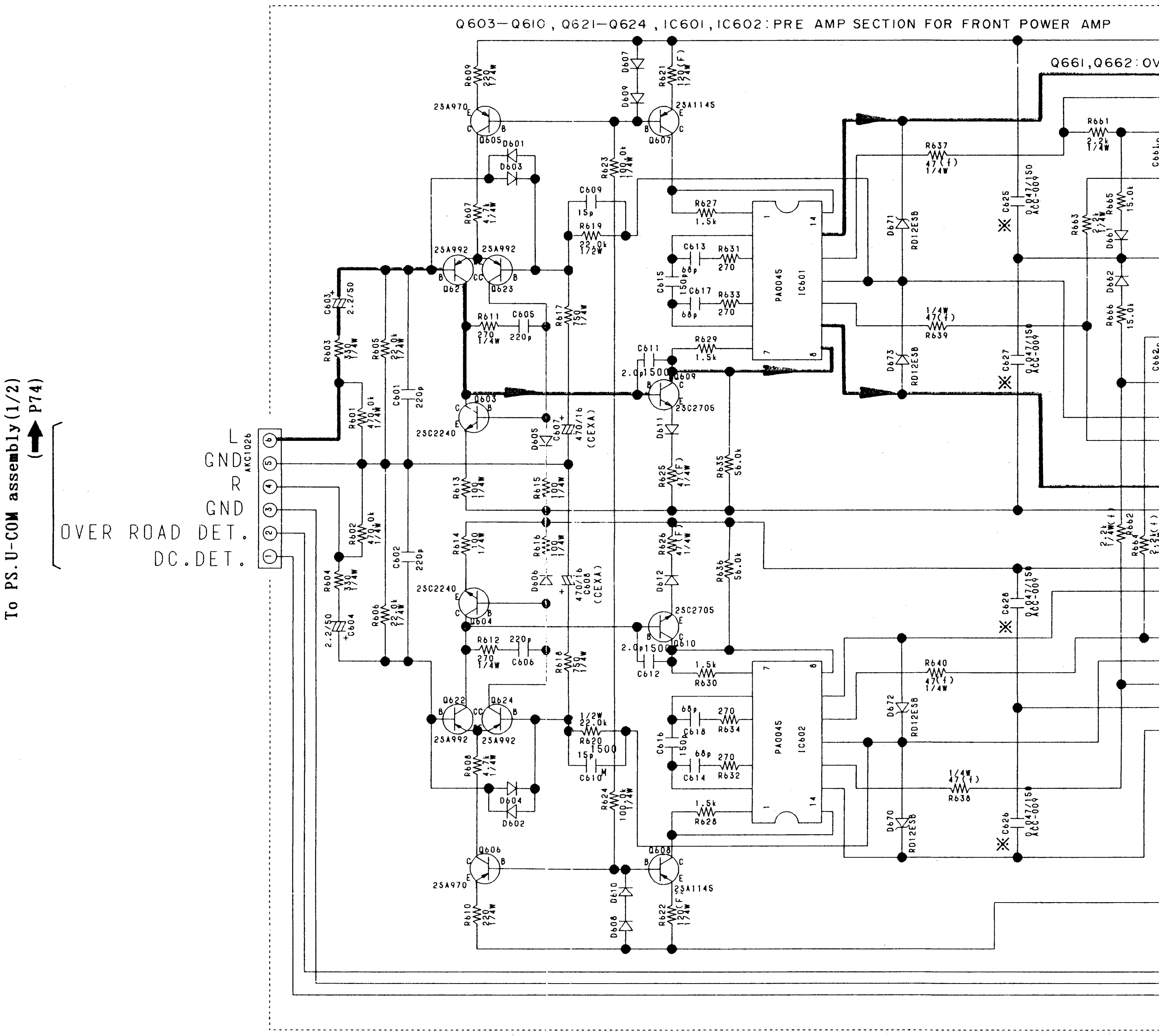

IC1105, IC1106: 64k, 8bit DYNAMIC RAM
GND
L1186
AUDIO ROUTE
(FRONT) FRONT AUDIO ROUTE
(CENTER) CENTER AUDIO ROUTE
(REAR) REAR AUDIO ROUTE
DOLBY SURROUND ROUTE
IC1110 LC78820-B
PWM DAC
R-STRING DAC
LEVEL SHIFT DAC
CH1 LATCH
CH2 LATCH
SIPO RESISTER1
SIPO RESISTER2
TIMING CONTROL
TEST CIRCUIT
CH1OUT
VrefH1
VrefH2
VDD
WCLK
DATAL
DATAR
BCLK
SYSCLK
CH2OUT
NC
VrefL2
GND
VrefL1
MODE2
MODE1
TST1
TSTOUT
DSP RESET
DSP DATA
DSP CLK
DSP REQ
DSP AK
DSP DRDY
GAIN CONT A
GAIN CONT B
CENTER CONT A
CENTER CONT B
MUTE
DOLBY
D.GND
To CN34 (P84)
To PS. U-COM assembly
Q1181: MUTE DRIVER
IC1117: MIXER
IC1118, IC1119: FRONT LEVEL ATT.
(FRONT)
(CENTER)
F.L OUT
A.G
F.R OUT
G
CENTER OUT
G
R.L OUT
G
R.R OUT
To CN32 (P72)
Q1202, Q1203: MIX SW
Q1182–Q1184, Q1201: CENTER MODE CONTROL
IC1120: CENTER MODE SWITCHING
Q1185: MUTE
MUTE TO DSP
MUTE FROM U-COM
IC1121(2/2): 6dB AMP
IC1121(1/2): MIXER
Q1186: MUTE DRIVER
Q1251, Q1252, IC1123: REAR MODE SWITCHING
+5V
-5V
IC1125: +17dB AMP
(REAR)
Q1253, Q1254: MUTE
IC1122: -10dB AMP
IC1122: LOW-PASS FILTER
IC1124 LA2730
V REF
V/I CONV
IC1124: DOLBY NR B

3.5 TUNER (AWE1160), FRONT AMP (AWH1014) and R. C. AMP assembly (AWZ3568)

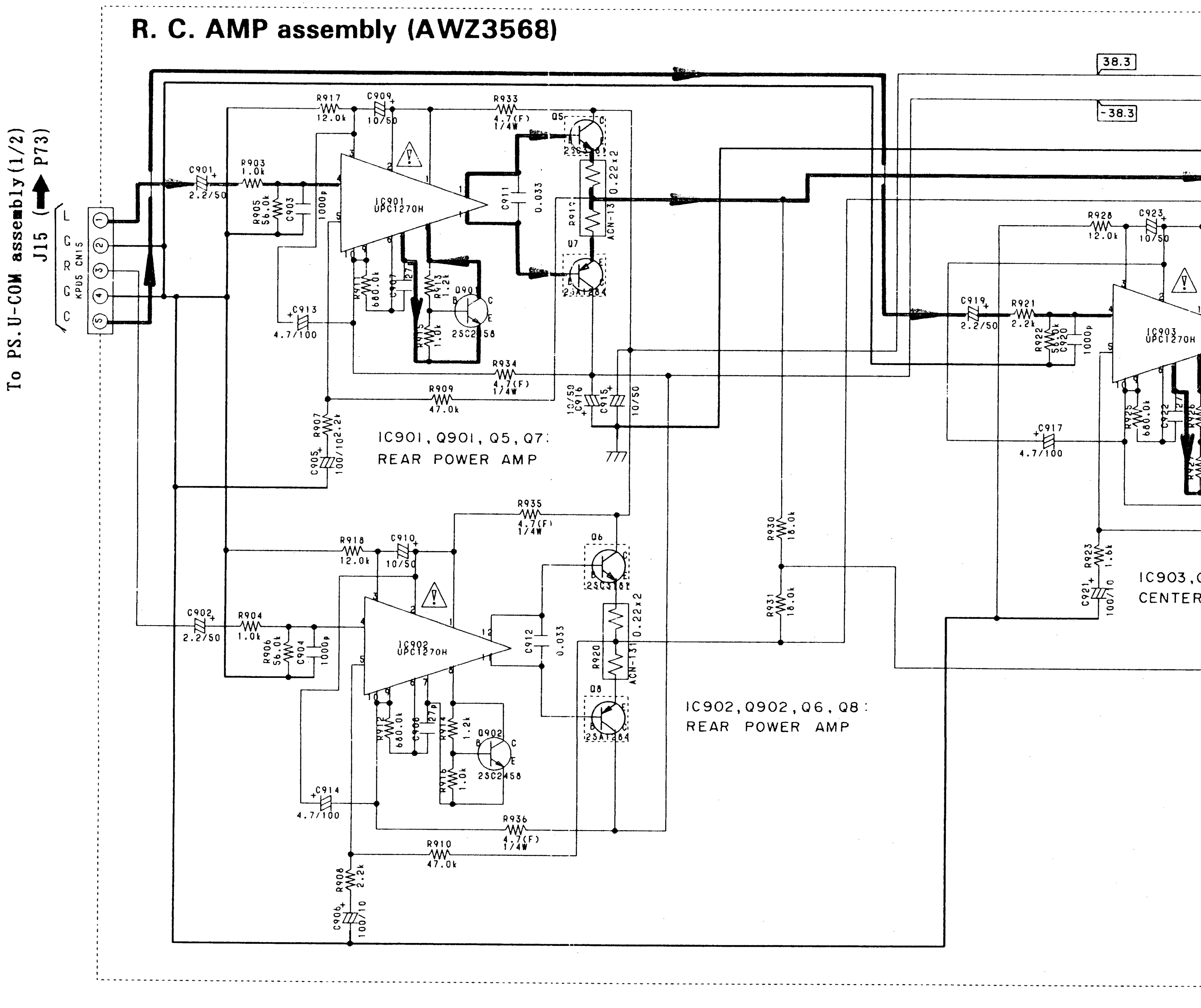

(FM) : FM SIGNAL
(AM) : AM SIGNAL
(FM/AM) : FM or AM SIGNAL
TUNER ASS'Y (AWE1160)
C403, C410~C412, C418, C419, C422, C465, C471, C473, C476, C480, C485 : ACG1021
SHIELD CASE
Q401 : RF AMP
Q402 : MIX
Q421 : IF AMP
Q403 : LOCAL OSC
Q405 : BUFFER AMP
AM RF TUNING BLOCK AXX1011
F421 ATF-107 (MA)
F422 ATF-119 (MS)
T402 ATE-063
FM 300Ω 75Ω
AM LOOP
AKA1014
L401 ATC1001
L402 ATC1002
D401 1SV147
D402 1SV147
D403 1SV147
Q401 2SK241
Q402 2SC2786
Q403 2SC2668
Q405 2SK161
Q421 2SC2668
L404 ATC1005
L403 ATC1004
L405 ATC1003
L406 LAU2R2M
L407 2.2μH LAU2R2M
C479 22p ACG1025
C409 100p ACG1017
F431 ATF1042
VR431 : TUNED INDICATION ADJ.
VR431 ACP1025 10k
VR432 VRTS6VS 153 15k
VR451 : VCO ADJ.
VR451 ACP1024 4.7k
C454 470p ACE1039
IC431 LA1265S
IC431 : AM/FM IF DET
IC451 AN7470P
IC451 : MPX
OSC
REG
RF
MIX
AGC
AM-IF
DET
BUFFER
SIGNAL METER
LEVEL DIT
SD ADJ.
LED DRIVER
POST AMP
FM-IF
Q.D
S. CURVE
VCO
DC AMP
PHASE DETECTOR
SCHMITT CIRCUIT
STEREO/MONO CHANGEOVER SWITCH
38kHz FLIP FLOP
19kHz 90° FLIP FLOP
19kHz 0° FLIP FLOP
LAMP DRIVE AND FREQUENCY CHECK
ENFORCEMENT MONAURAL AND ENFORCEMENT V.C.O. STOP
INPUT PRE AMP
FEEDBACK AMP
COMPOSITE SIGNAL DETECTOR
R ch OUTPUT AMP
L ch OUTPUT AMP
VOLTAGE REGULATOR
T432 ATE1002
T431 ATE1001
X431 ATF1027
C441 0.022/25 ACG1022
C472 0.022/25 ACG1022
C444 330p ACG1018
C445 47p ACG1016
D431
D432
D433
D434
D435
43 S-METER
44 VCO
46 T-METER
45
VREF
49
50
51
52
※ KUC TYPE SHORT
Q473, Q474 : FM/AM BAND SELECTOR
Q473 RN2201
Q474 RN2201
IC471 LM7001
IC471 : PLL
VSS PD2 PD1 VDD2 VDD FMIN AMIN B03
XOUT XIN CE CK DATA SYC B01 B02
X471 ASS1005
C483 100p ACG1017
Q471 2SK246
Q472 2SC1740SLN
Q471, Q472 : DC AMP
Q451 2SC2603
Q451 : REGULATOR
F461 ATF-164
Q452 2SC1740S
Q453 2SC1740S
Q454 2SA933S
Q452~Q454 : MUTE
VT 41
AM CH. STEP
53
48
CH. STEP
53-48 SHORT { AM : 9kHz FM : 50kHz }
53-48 OPEN { AM : 10kHz FM : 100kHz }
CN401
STOP MUTE L ch OUT GND R ch OUT STEREO DATA CK CE +5V +12V GND
To PS. U-COM assembly (1/2) CN37 (➡ P72)
To PS. U-COM assembly (1/2) (➡ P74)
9.6
10.5
8.1
10.0
5.0
11.7
11.0
2.6 3.8 3.8 0 0 0 1.4 2.2 0 0 1.5
2.2 2.2 2.2 0 11 11 11 3.4 3.6 2.6 1.5
2.9 3.1 2.6 2.6 2.6 2.6 2.6 4.7
11.0 2.5 6.0 8.6 8.6 3.4 3.4 0
A
B
C
D
E
F
1
2
3
4
5


(FM) : FM SIGNAL
(AM) : AM SIGNAL
(FM/AM) : FM or AM SIGNAL
C403, C410～C412, C418, C419, C422, C465, C471, C473, C476, C480, C485 : ACG1021
F422 ATF-119 (MS)
Q421 2SC2668
R428 470
R421 220
C422 0.01/16
Q421 : IF AMP
C412 0.01/16
R411 220
C479 22p ACG1025
BUFFER AMP
VREF
VR451 : VCO ADJ.
R452 15k
R453 1k
ACP1024
VR451 4.7k
C456 1.5/50
C455 3.3/50
C457 0.22/50
R431 22k
IC451 AN7470P
43 S-METER
44 VCO
46 T-METER
45
VCO
DC AMP
PHASE DETECTOR
PHASE DETECTOR
DC AMP
SCHMITT CIRCUIT
STEREO/MONO CHANGEOVER SWITCH
38kHz FLIP FLOP
19kHz 90° FLIP FLOP
19kHz 0° FLIP FLOP
LAMP DRIVE AND FREQUENCY CHECK
ENFORCEMENT MONAURAL AND ENFORCEMENT V.C.O. STOP
INPUT PRE AMP
FEEDBACK AMP
COMPOSITE SIGNAL DETECTOR
R ch OUTPUT AMP
L ch OUTPUT AMP
VOLTAGE REGULATOR
R472 1k
C466 120p
R462 51k
R455 22k
C459 1000p
R456 22k
R463 51k
R466 75k
C460 1000p
C447 560p
C446 560p
R457 10k
R458 10k
C458 47/16
※ KUC TYPE SHORT
R459 8.2k
R460 8.2k
C461 4.7/50
C462 4.7/50
R465 12k
R464 12k
C464 47/16
Q451 : REGULATOR
F461 ATF-164
(FM/AM)
Q453 2SC1740S
Q452 2SC1740S
C465 0.01/16
Q452～Q454 : MUTE

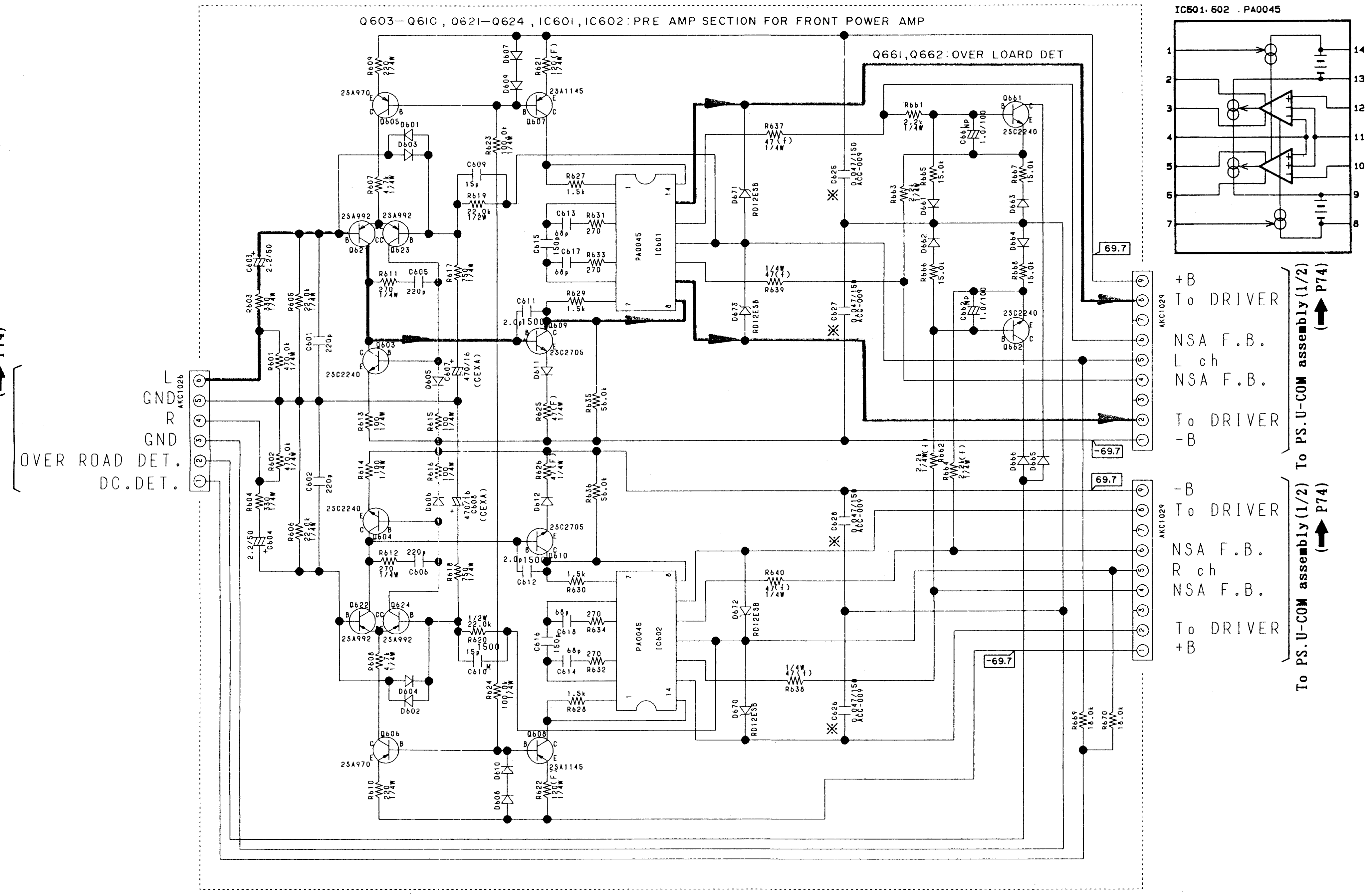
FRONT AMP assembly (AWH1014)


Q603－Q610, Q621－Q624, IC601, IC602 : PRE AMP SECTION FOR FRONT POWER AMP
Q661, Q662 : OV
To PS. U-COM assembly (1/2) (P74)
L
GND
R
GND
OVER ROAD DET.
DC. DET.
AKC1026
2SA970
2SA1145
2SA992
2SC2240
2SC2705
PA0045
IC601
IC602
RD12ESB

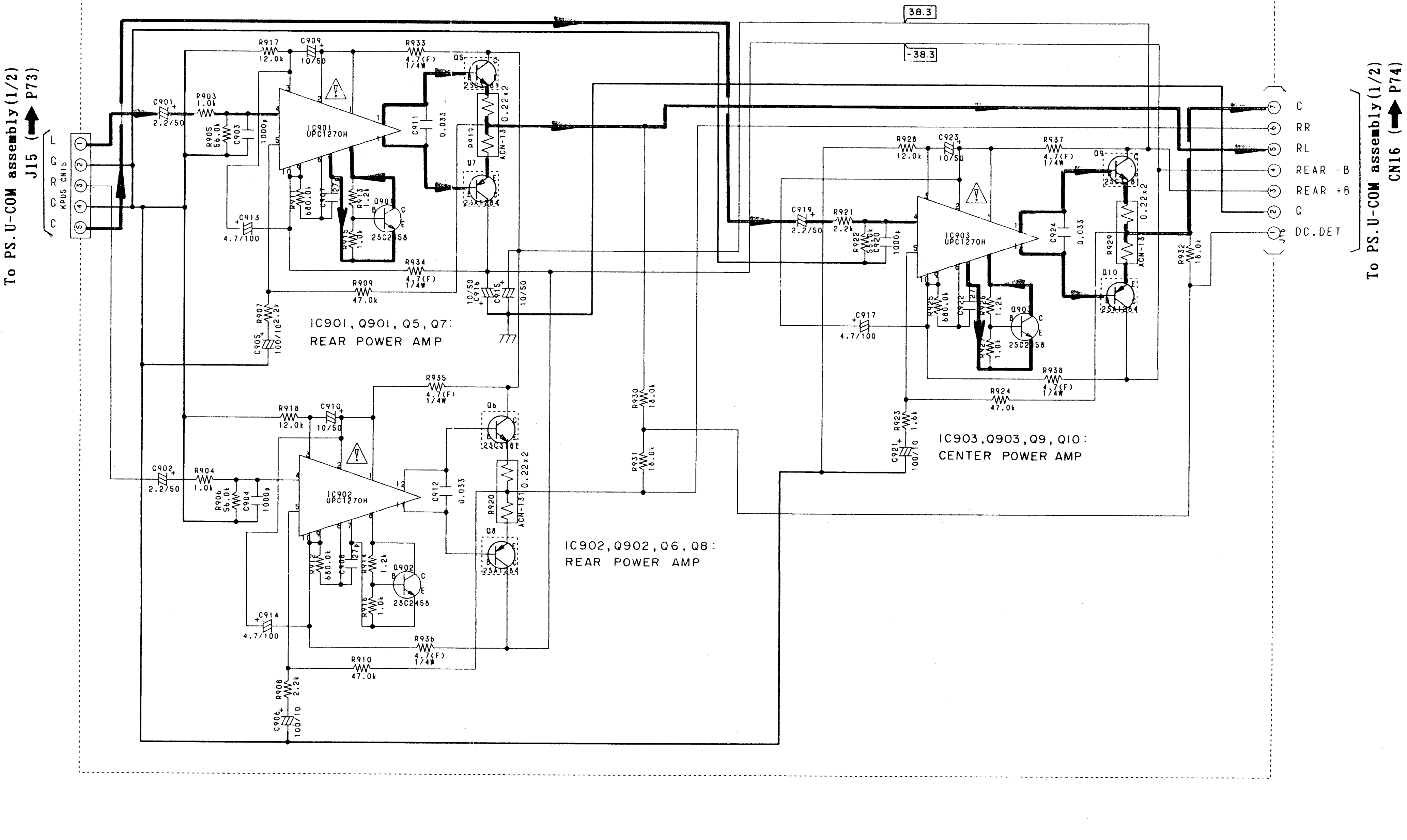
R. C. AMP assembly (AWZ3568)

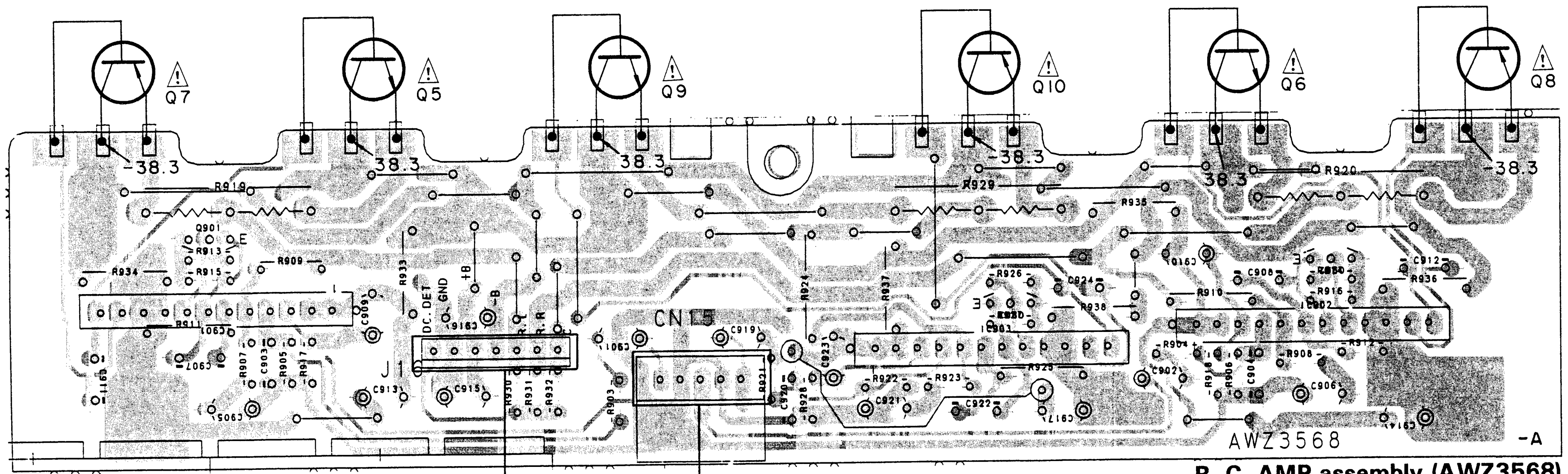

To PS. U-COM assembly (1/2) J15 (P73)
CN15
38.3
-38.3
IC901 UPC1270H
IC902 UPC1270H
IC903 UPC1270H
2SC2458
2SA1264
ACN-13 0.22×2
IC901, Q901, Q5, Q7 : REAR POWER AMP
IC902, Q902, Q6, Q8 : REAR POWER AMP
IC903, C
CENTER

FRONT AMP assembly (AWH1014)


Q603–Q610, Q621–Q624, IC601, IC602: PRE AMP SECTION FOR FRONT POWER AMP
Q661, Q662: OVER LOARD DET
IC601, 602 . PA0045
L
GND
R
GND
OVER ROAD DET.
DC.DET.
AKC1026
AKC1029
+B
To DRIVER
NSA F.B.
L ch
NSA F.B.
To DRIVER
-B
-B
To DRIVER
NSA F.B.
R ch
NSA F.B.
To DRIVER
+B
To PS.U-COM assembly (1/2) P74
To PS.U-COM assembly (1/2) P74
69.7
-69.7
69.7
-69.7
IC601
IC602
PA0045
2SA970
2SA992
2SC2240
2SC2705
2SA1145
2SC2240
RD12ESB

R. C. AMP assembly (AWZ3568)


To PS.U-COM assembly (1/2) J15 P73
KPUS CN15
L
C
R
G
C
38.3
-38.3
IC901 UPC1270H
IC902 UPC1270H
IC903 UPC1270H
2SC2458
ACN-131
IC901, Q901, Q5, Q7: REAR POWER AMP
IC902, Q902, Q6, Q8: REAR POWER AMP
IC903, Q903, Q9, Q10: CENTER POWER AMP
C
RR
RL
REAR -B
REAR +B
G
DC.DET
To PS.U-COM assembly (1/2) CN16 P74


Q7
Q5
Q9
Q10
Q6
Q8
-38.3
CN15
J1
AWZ3568
-A

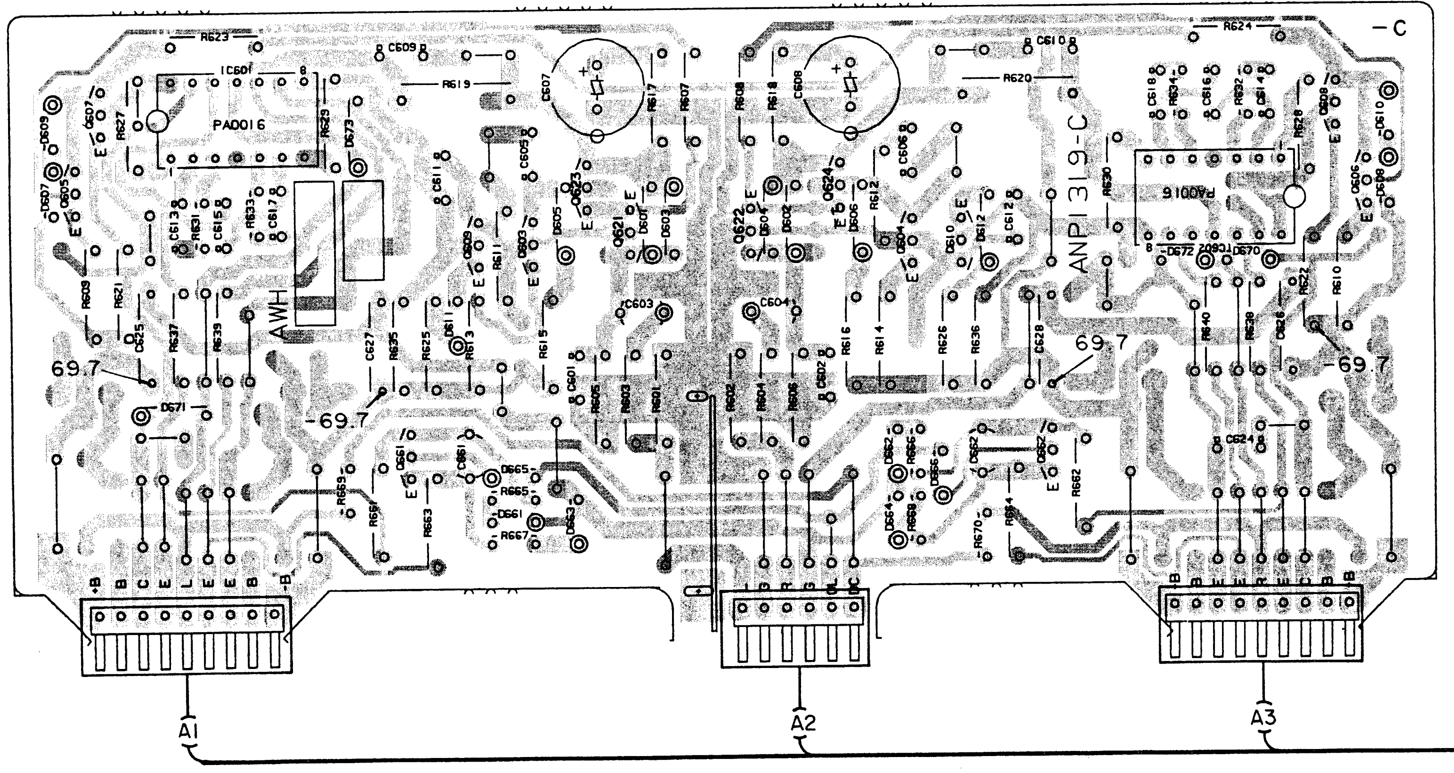
R. C. AMP assembly (AWZ3568)

To PS.U-COM assembly CN16 (➡ P76)

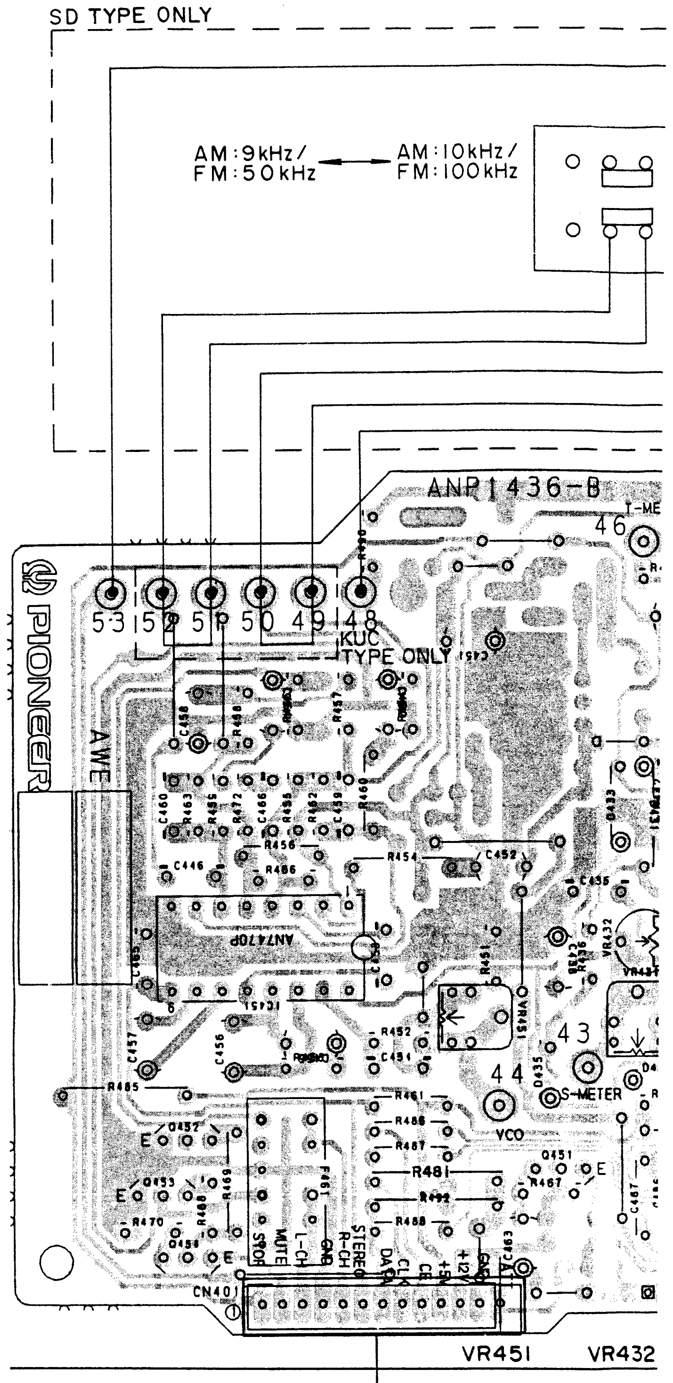
To PS.U-COM assembly J15 (➡ P76)

Q605 Q607 IC601 Q609 Q603 Q623 Q621 Q622 Q624 Q604 Q610 IC602 Q608 Q606
Q661 Q662

FRONT AMP assembly (AWH1014)


-C
PA0016
ANP1319-C
AWH
69.7
-69.7
A1
A2
A3

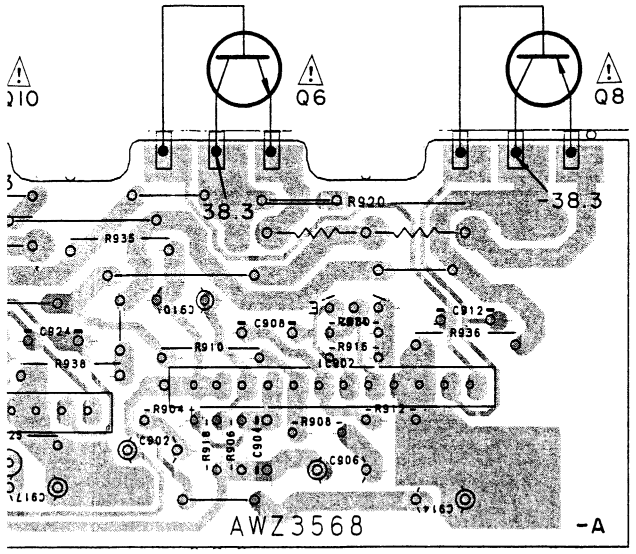
To PS.U-COM assembly B, D, F (➡ P75, P76)


SD TYPE ONLY
AM:9kHz/ FM:50kHz
AM:10kHz/ FM:100kHz
ANP1436-B
PIONEER
AWE
53 52 51 50 49 48
KUC TYPE ONLY
AN7470P
IC451
S-METER
VCO
CN401
46
43
44

VR451 VR432

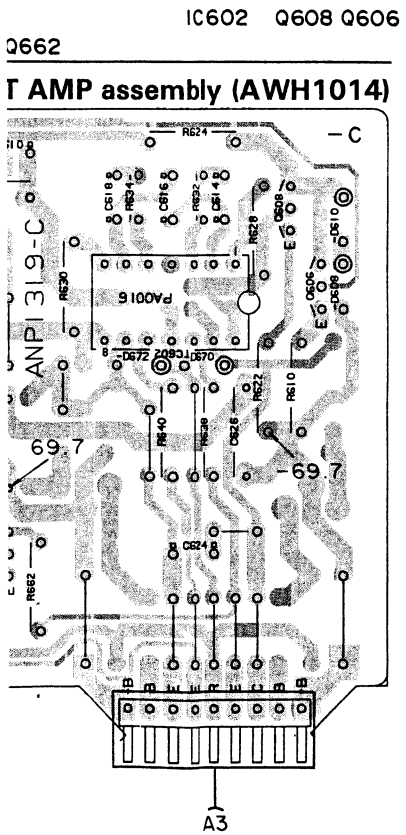
IC451
Q453 Q452 Q454 Q451

To PS.U-COM assembly CN37 (➡ P75)


Q10
Q6
Q8
38.3
38.3
R920
R935
C908
R910
R938
C906
AWZ3568
-A

R. C. AMP assembly (AWZ3568)

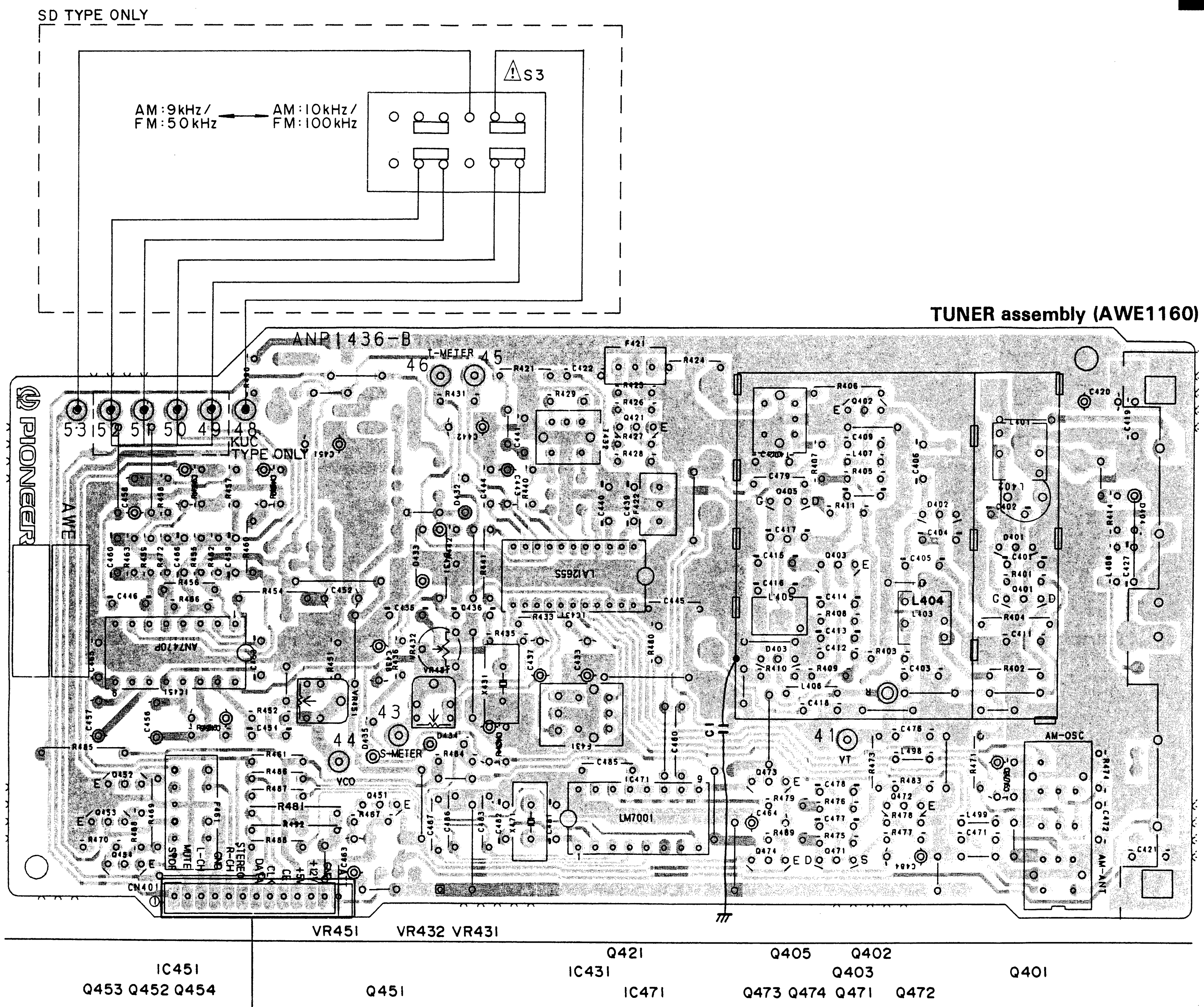
y
6)


IC602 Q608 Q606
Q662
-C
ANP1319-C
PA0016
69.7
-69.7
A3

T AMP assembly (AWH1014)

To PS.U-COM assembly
B,D,F (➡ P75,P76)

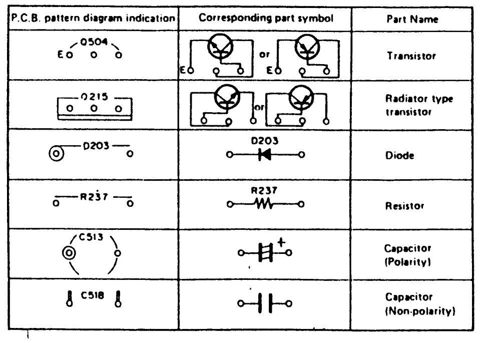
TUNER assembly (AWE1160)


SD TYPE ONLY
AM:9kHz/
FM:50kHz
AM:10kHz/
FM:100kHz
S3
ANP1436-B
T-METER
46
45
53
52
51
50
49
48
KUC TYPE ONLY
PIONEER
AWE
LA1265
AN7410P
LM7001
VCO
S-METER
43
44
41
VT
AM-OSC
AM-ANT
CN401
STOP
MUTE
L-CH
STEREO
DA
CL
CE
+5V
+12V
GND
VR451 VR432 VR431
Q421
IC431
IC471
Q405 Q402
Q403
Q401
IC451
Q453 Q452 Q454
Q451
Q473 Q474 Q471 Q472

To PS.U-COM assembly
CN37 (➡ P75)

NOTE

1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.



P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
E Q504	or E	Transistor
Q215	or	Radiator type transistor
D203	D203	Diode
R237	R237	Resistor
C513	+	Capacitor (Polarity)
C518		Capacitor (Non-polarity)

Others

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

3. The capactor terminal marked with ◎ (double circles) shows negatine termianl.
4. The diode terminal marked with ◎ (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

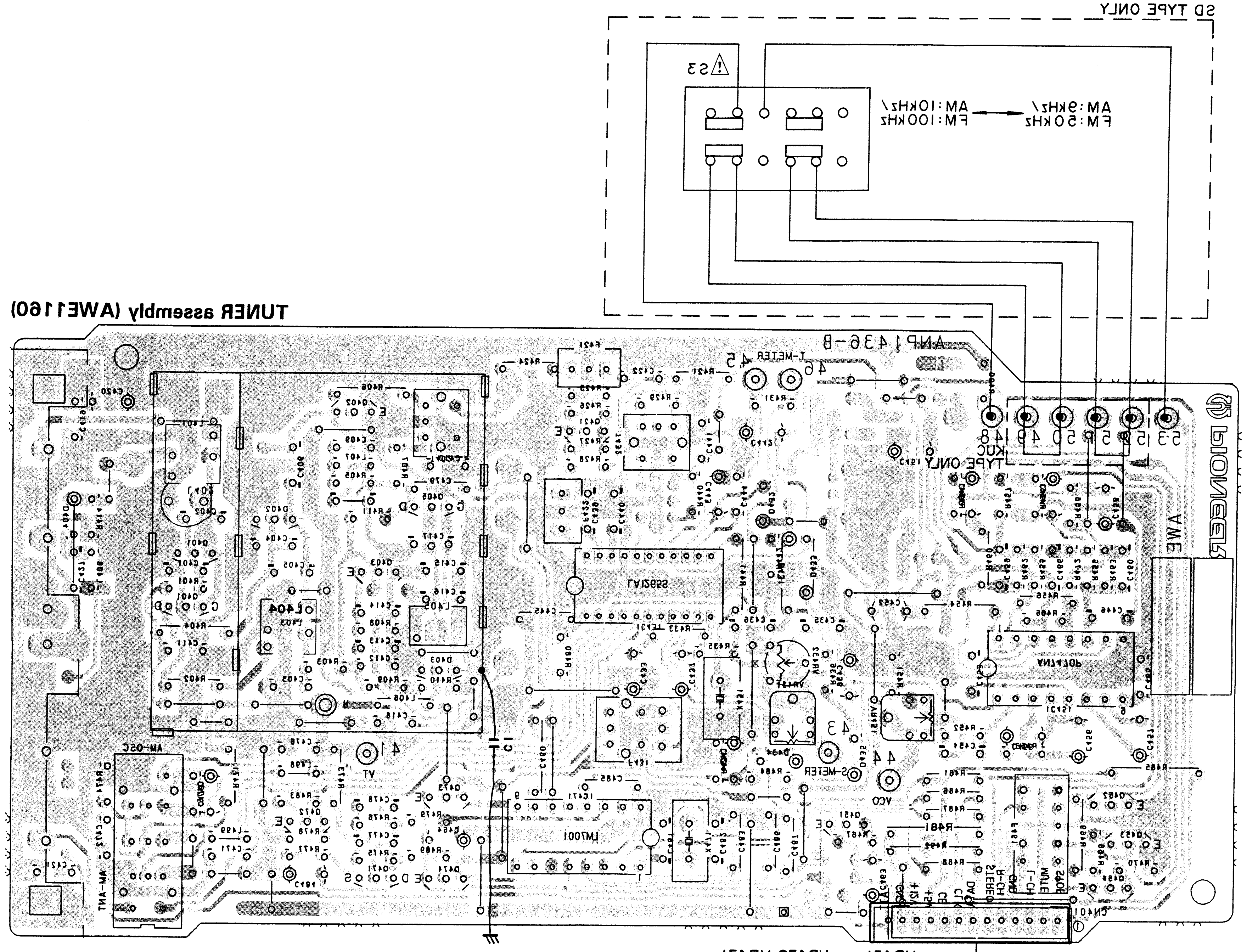
A

B

C

D

SD TYPE ONLY


S3
AM:9kHz/ FM:50kHz → AM:10kHz/ FM:100kHz
ANP1436-B
T-METER
S-METER
VCO
VT
AM-OSC
AM-ANT
LA3365
LM7001
LA1260
KUC TYPE ONLY
PIONEER
AWE
CN401
VR451 VR432 VR431

TUNER assembly (AWE1160)

Q401

Q402 Q403 Q405

Q472 Q471 Q474 Q473

Q421

IC431

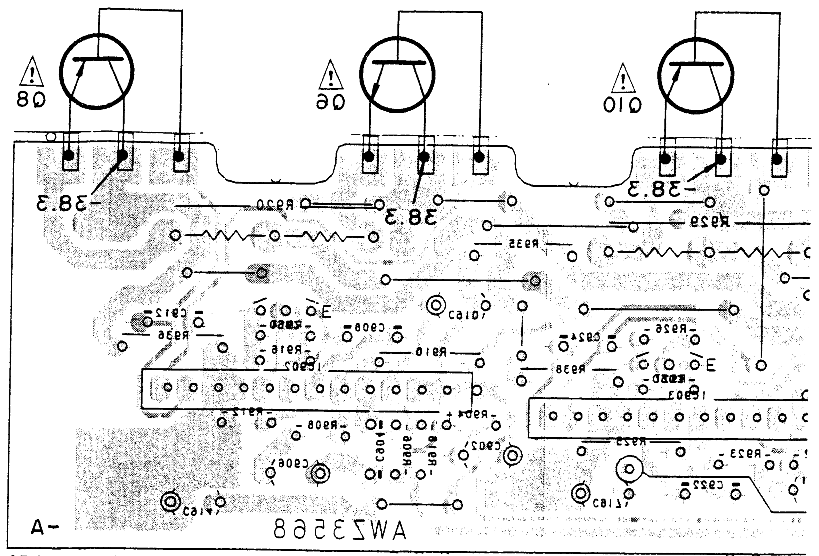
IC471

Q451

IC451

Q454 Q452 Q453

To PS.U-COM assembly
CN37 (⬅ P75)


Q8
Q6
Q10
-38.3
38.3
-38.3
AWZ3568
A-

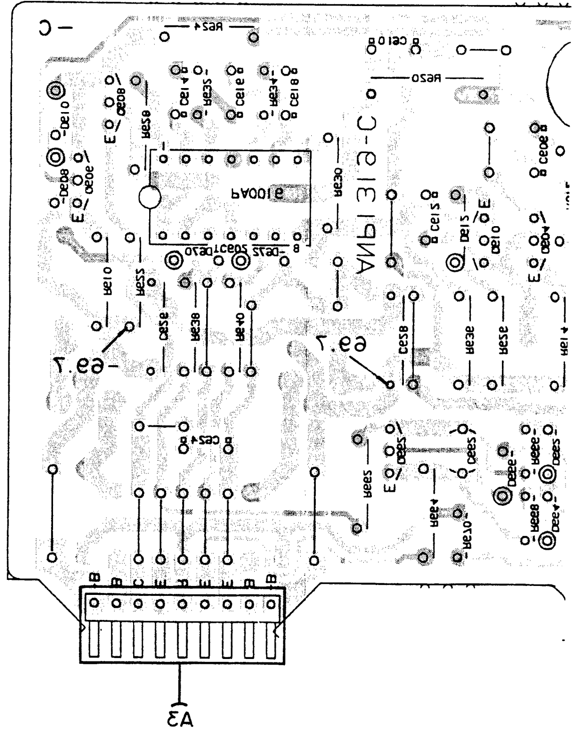
R. C. AMP assembly (AWZ3568)

-COM assembly
J15 (⬅ P76)

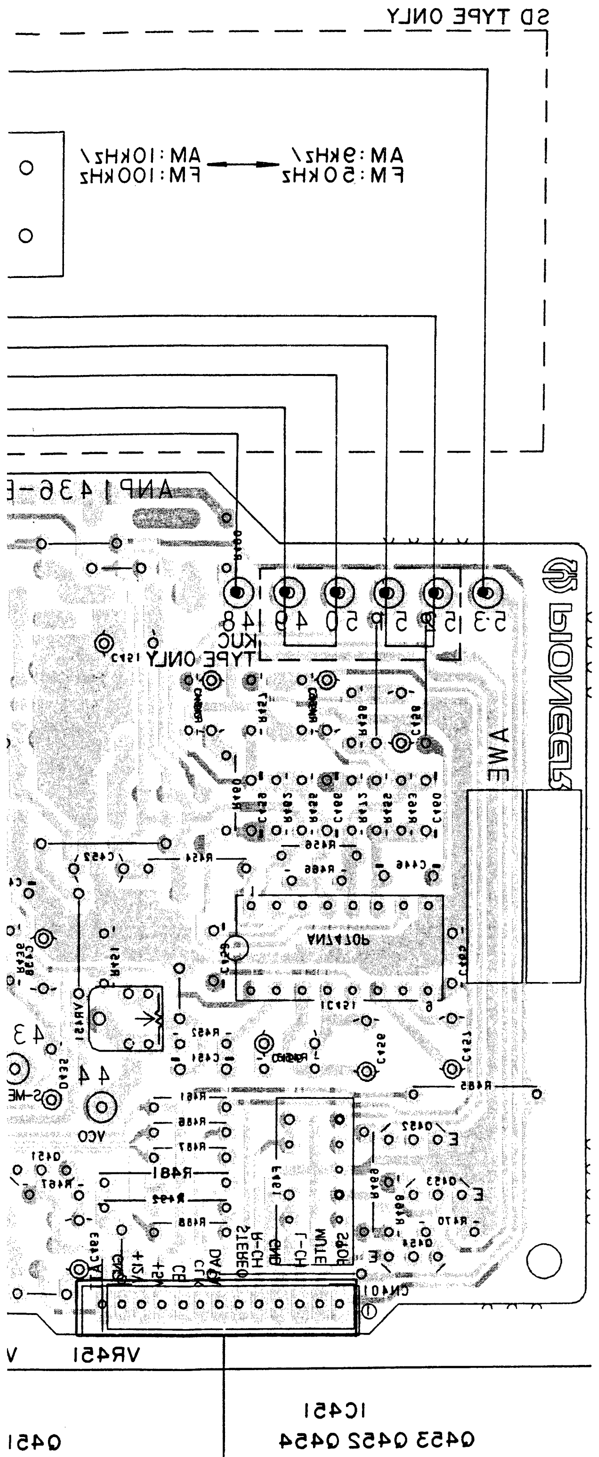
Q604 Q610 IC602 Q608 Q606

Q602

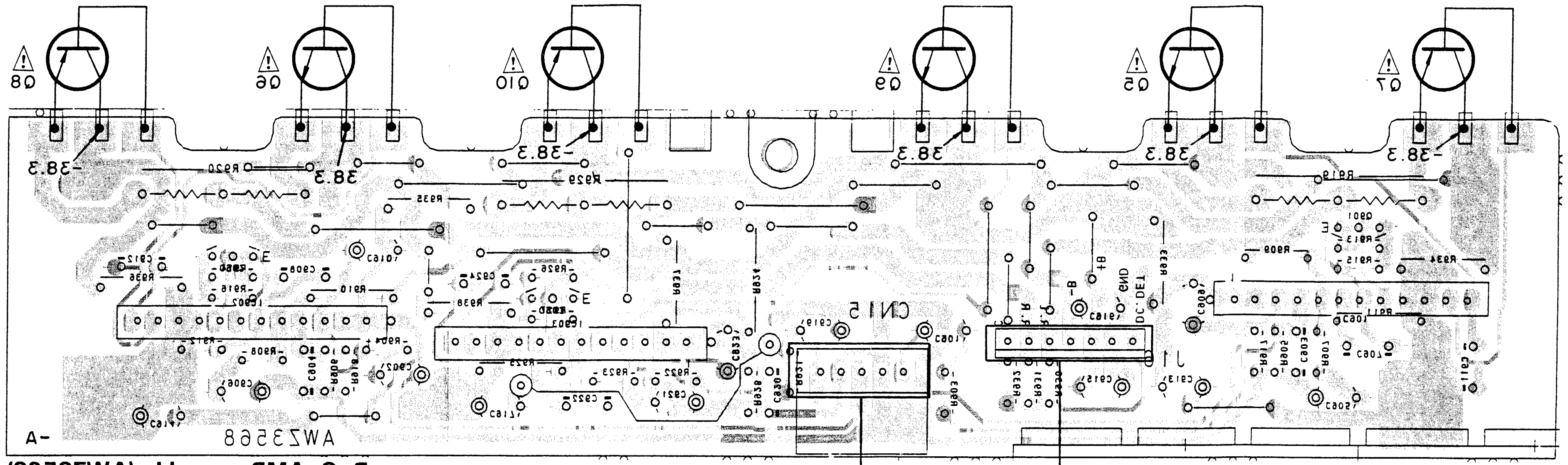
FRONT AMP assembly (AWH1014)


C-
ANP1316-C
PA0069
69.7
-69.7
A3

To PS.U-COM assembly
B,D,F (⬅ P75,P76)


SD TYPE ONLY
AM:9kHz/
FM:50kHz
AM:10kHz/
FM:100kHz
ANP1436-E
PIONEER
KUC
TYPE ONLY
AWE
VR451
CN401
IC451
Q453 Q452 Q454
Q451

To PS.U-COM assembly
CN37 (⬅ P75)


Q8
Q6
Q10
Q9
Q5
Q7
-38.3
-38.3
-38.3
-38.3
-38.3
-38.3
CN15
J11
AWZ3568

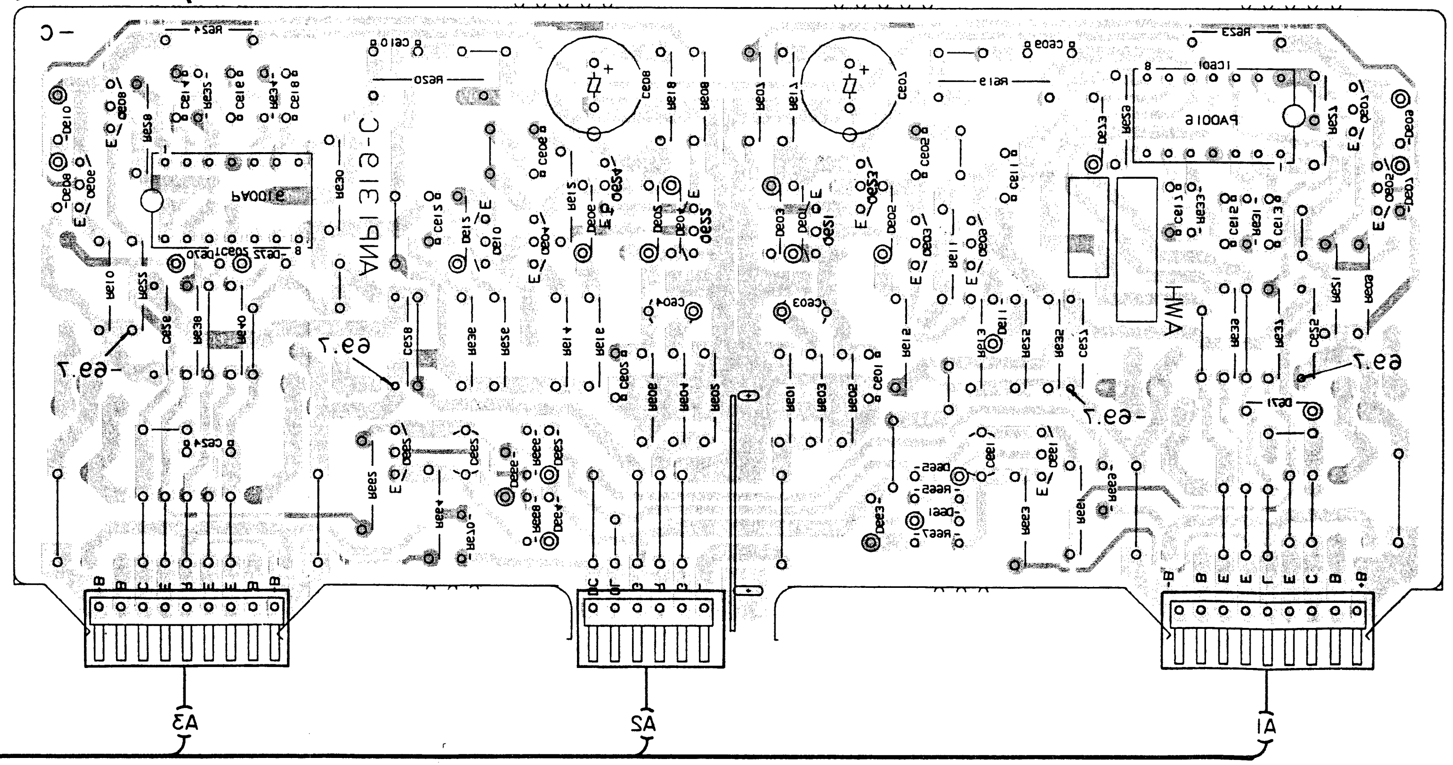
R. C. AMP assembly (AWZ3568)

To PS.U-COM assembly
J15 (⬅ P76)

To PS.U-COM assembly
CN16 (⬅ P76)

Q606 Q608 IC602 Q610 Q604 Q624 Q622 Q621 Q623 Q603 Q609 Q605 Q607 IC601
Q662 Q661

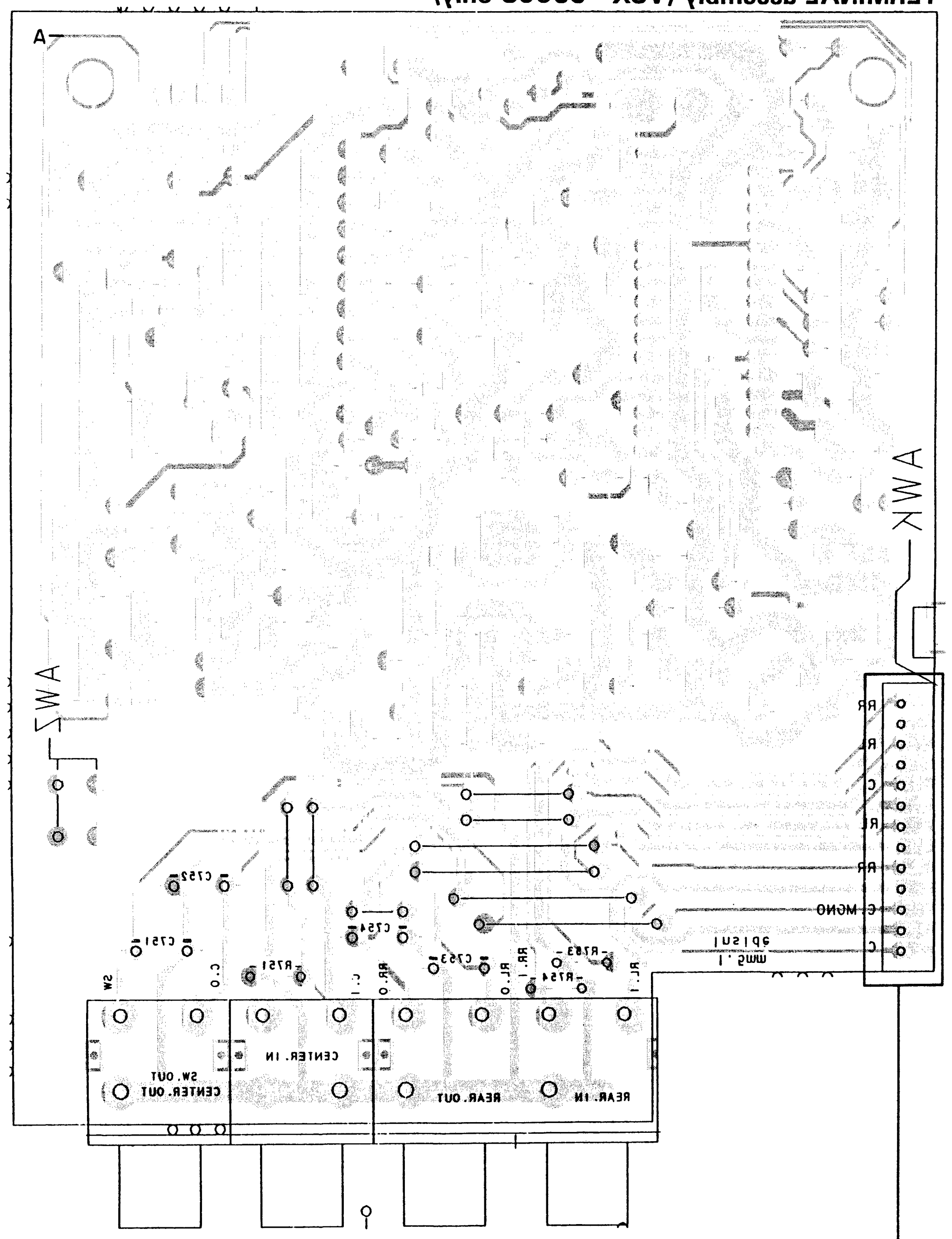
FRONT AMP assembly (AWH1014)


ANP1316-C
AWH
PA0016
IC601
-69.7
-69.7
69.7
69.7
A3
A2
A1

To PS.U-COM assembly
B,D,F (⬅ P75,P76)

A

TERMINAL assembly (VSX-9900S only)

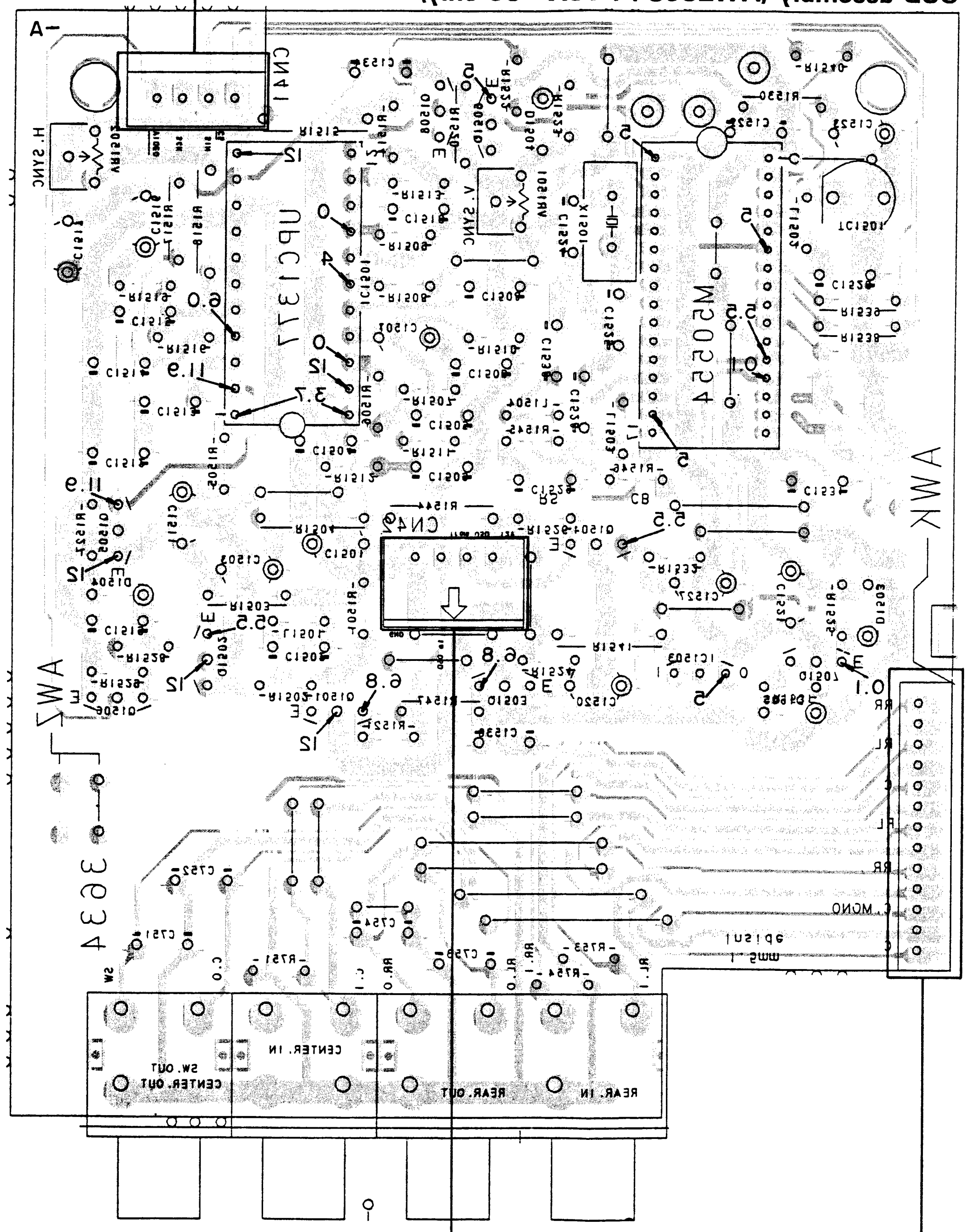

A
AWZ
AWK
RR
RL
C
C.MONO
SW
C.O
R751
C751
C752
C753
C754
R753
R754
RR.O
RL.O
RR.I
RL.I
SW.OUT
CENTER.OUT
CENTER.IN
REAR.OUT
REAR.IN

PS.U-COM assembly
CN58 (⬅ P76)

OSD assembly (AWZ3634 : VSX-95 only)

To FRONT CONTROL assembly
CN1901 (⬅ P66)

Q1509 Q1508
VR1502
VR1501
IC1502 IC1501
Q1504 Q1505
Q1507 Q1502
IC1503
Q1506 Q1503
Q1501


A
CN41
CN42
H.SYNC
V.SYNC
UPC1371
M50554
AWZ 3634
AWK
12
11.9
6.0
4
0
3.7
5.5
6.8
5
8
0.1
RR
RL
C
C.MONO
SW.OUT
CENTER.OUT
CENTER.IN
REAR.OUT
REAR.IN

IC1651
IC1653
IC1654
IC1650
IC1652
IC1655
Q1658
IC1657
IC1656
Q1657
IC1658
Q1659
Q1656

To ENHANCER assembly
J42 (⬅ P26)

.U-COM assembly
CN58 (⬅ P76)

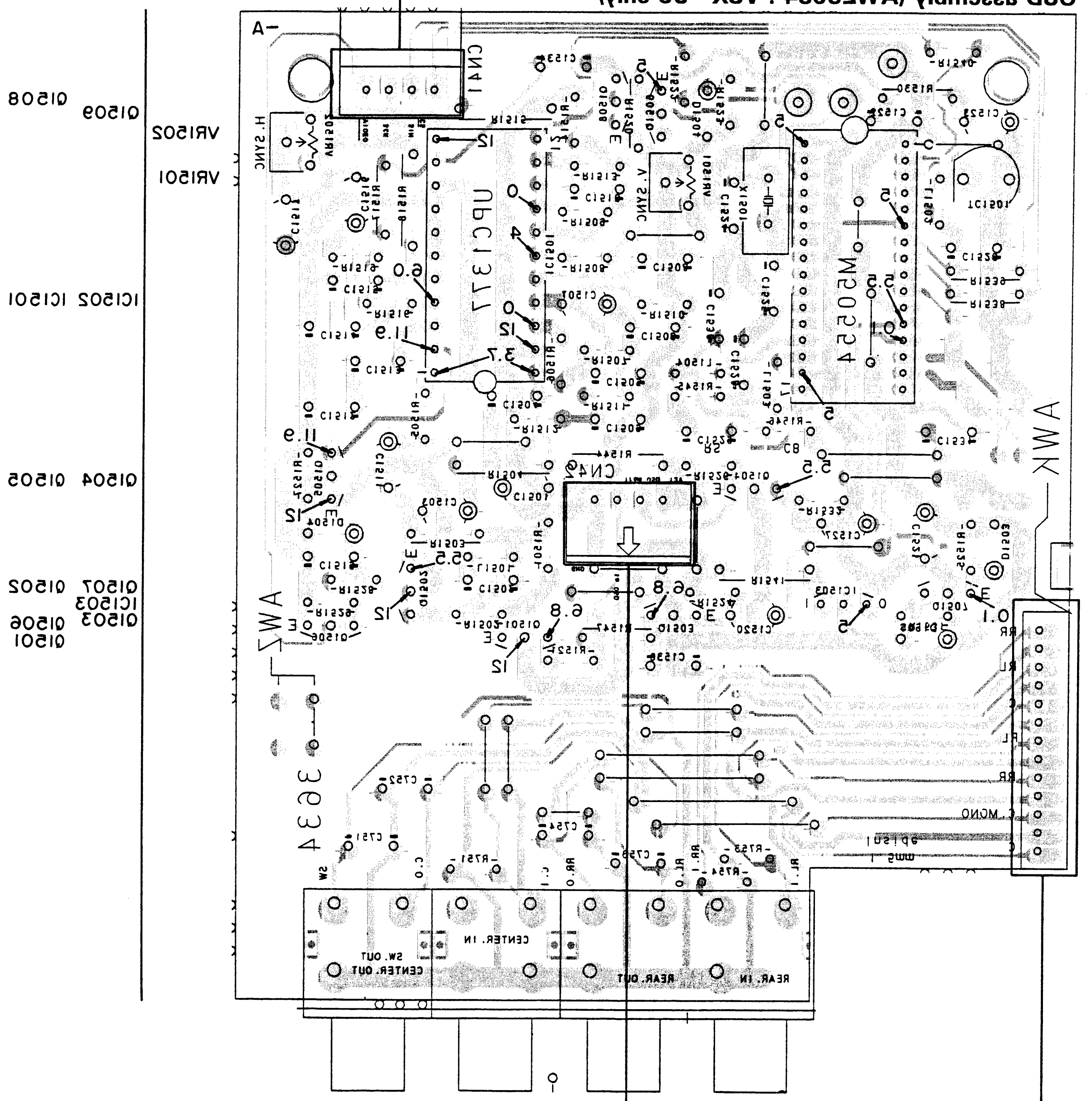
B

C

D

To FRONT CONTROL assembly
CN1901 (⬅ P66)

OSD assembly (AWZ3634 : VSX-95 only)

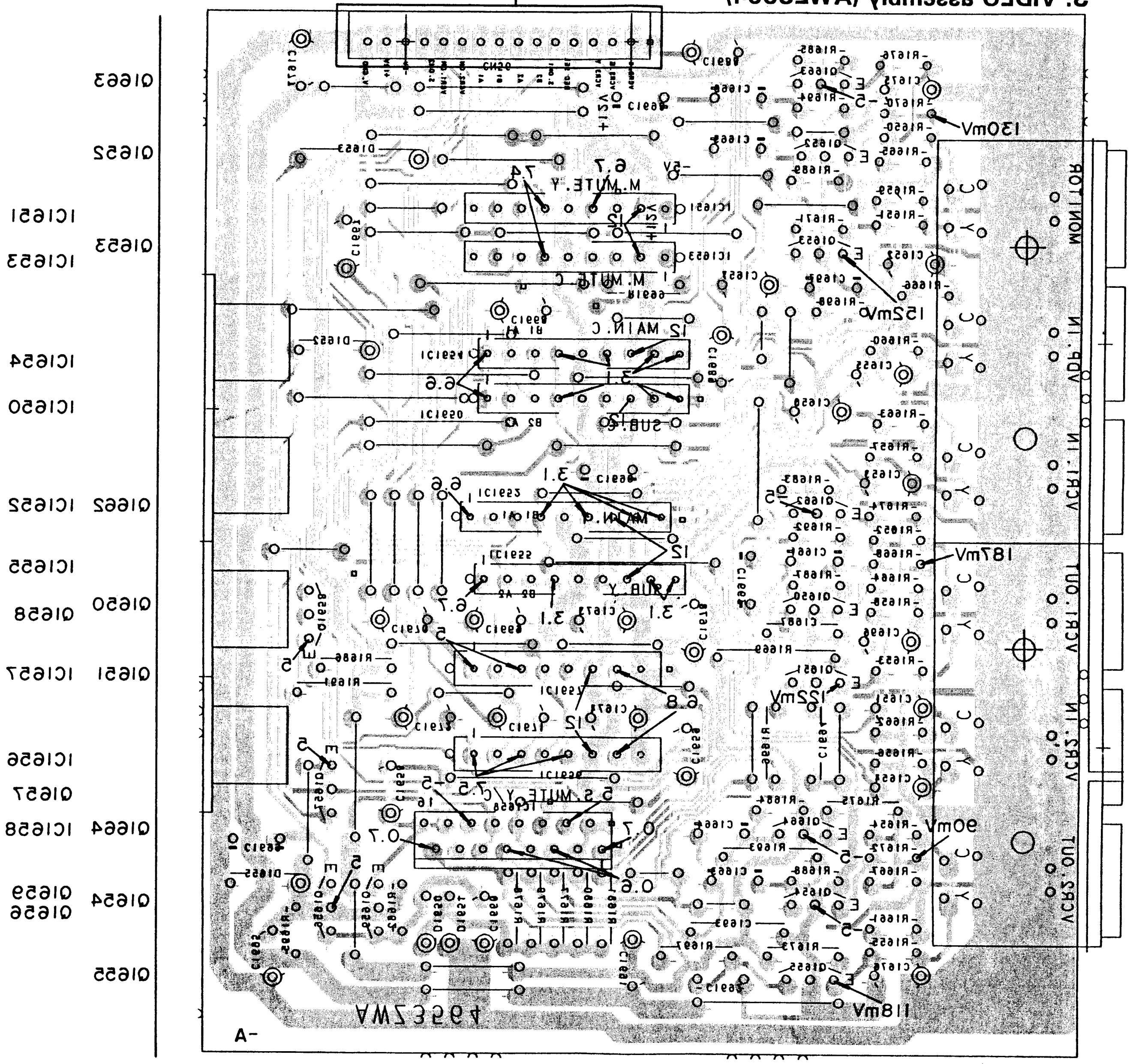

Q1508
Q1509
VR1502
VR1501
IC1502 IC1501
Q1504 Q1505
Q1507 Q1502
IC1503
Q1506 Q1503
Q1501
CN41
H.SYNC
UPC1371
M50554
CN42
AWX
AWZ 3634
SW.OUT
CENTER.OUT
CENTER.IN
REAR.OUT
REAR.IN

To ENHANCER assembly
J42 (⬅ P26)

To PS.U-COM assembly
CN58 (⬅ P76)

To PS.U-COM assembly
CN56 (⬅ P76)

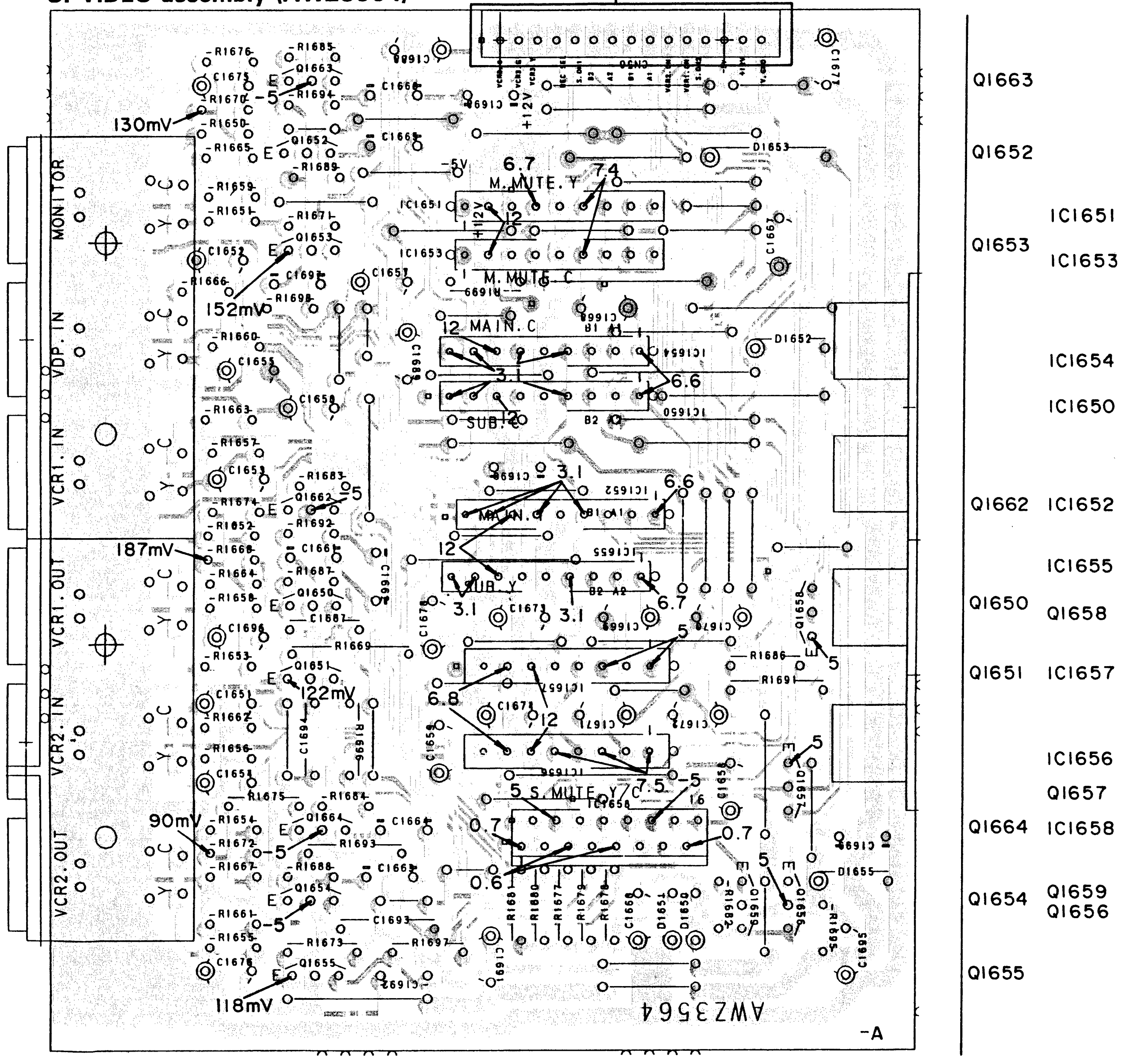
S. VIDEO assembly (AWZ3564)


Q1663
Q1652
IC1651
Q1653 IC1653
IC1654
IC1650
Q1662 IC1652
IC1655
Q1650 Q1658
Q1651 IC1657
IC1656
Q1657
Q1664 IC1658
Q1654 Q1659
Q1656
Q1655
M.MUTE.Y
M.MUTE.C
MAIN.C
SUB.C
MAIN.Y
SUB.Y
S.MUTE.Y/C
MONITOR
VDP. IN
VCR1. IN
VCR1. OUT
VCR2. IN
VCR2. OUT
130mV
152mV
187mV
122mV
90mV
118mV
AWZ3564

3.6 OSD (AWZ3634) and S. VIDEO assembly (AWZ3564)

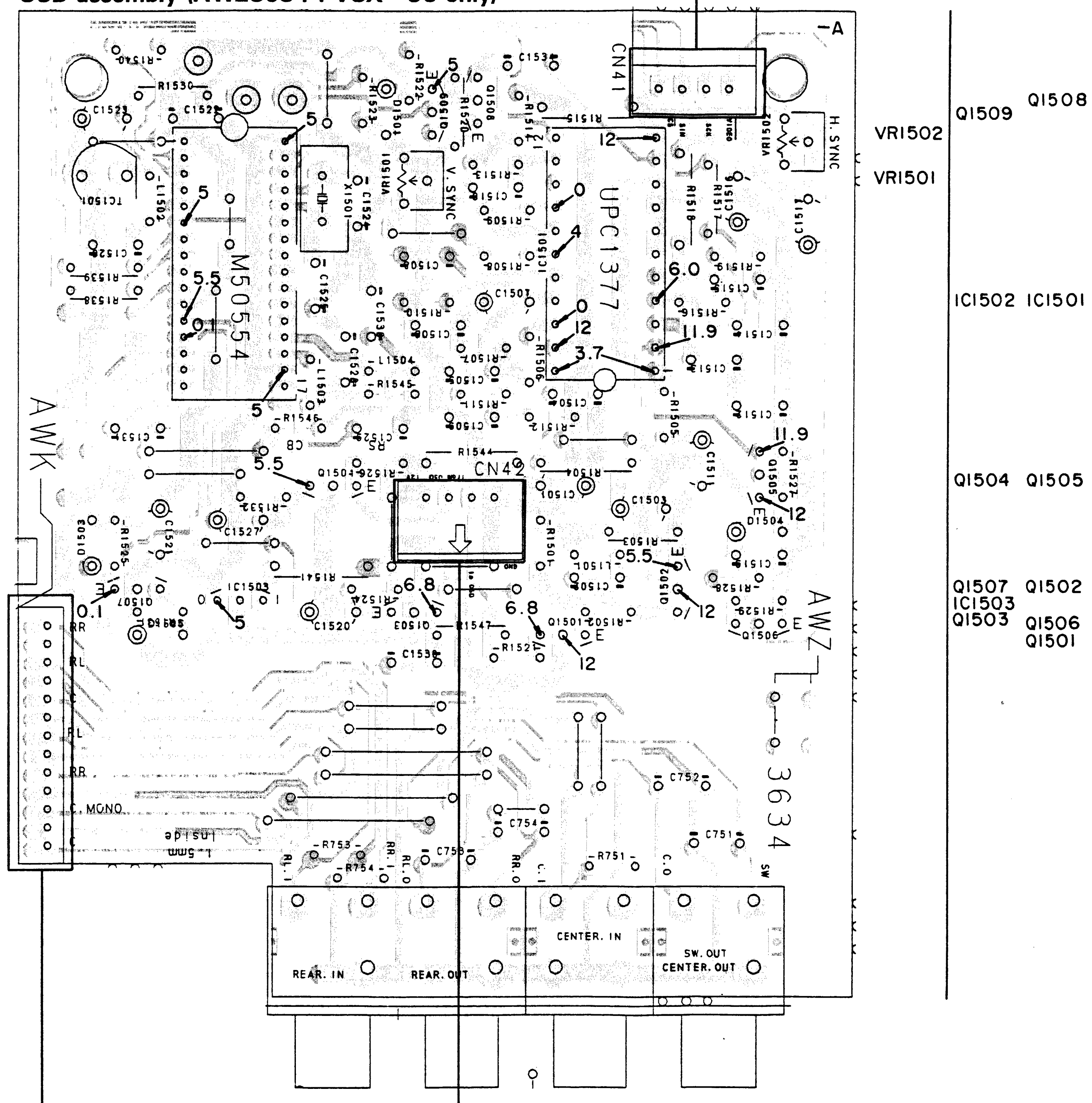
To PS.U-COM assembly
CN56 (➡ P76)

S. VIDEO assembly (AWZ3564)


Q1663
Q1652
IC1651
Q1653
IC1653
IC1654
IC1650
Q1662
IC1652
IC1655
Q1650
Q1658
Q1651
IC1657
IC1656
Q1657
Q1664
IC1658
Q1654
Q1659
Q1656
Q1655
MONITOR
VDP. IN
VCR1. IN
VCR1. OUT
VCR2. IN
VCR2. OUT
130mV
152mV
187mV
122mV
90mV
118mV
M. MUTE. Y
M. MUTE. C
MAIN. C
SUB. C
MAIN. Y
SUB. Y
S. MUTE. Y/C
AWZ3564

To FRONT CONTROL assembly
CN1901 (➡ P66)

OSD assembly (AWZ3634 : VSX−95 only)

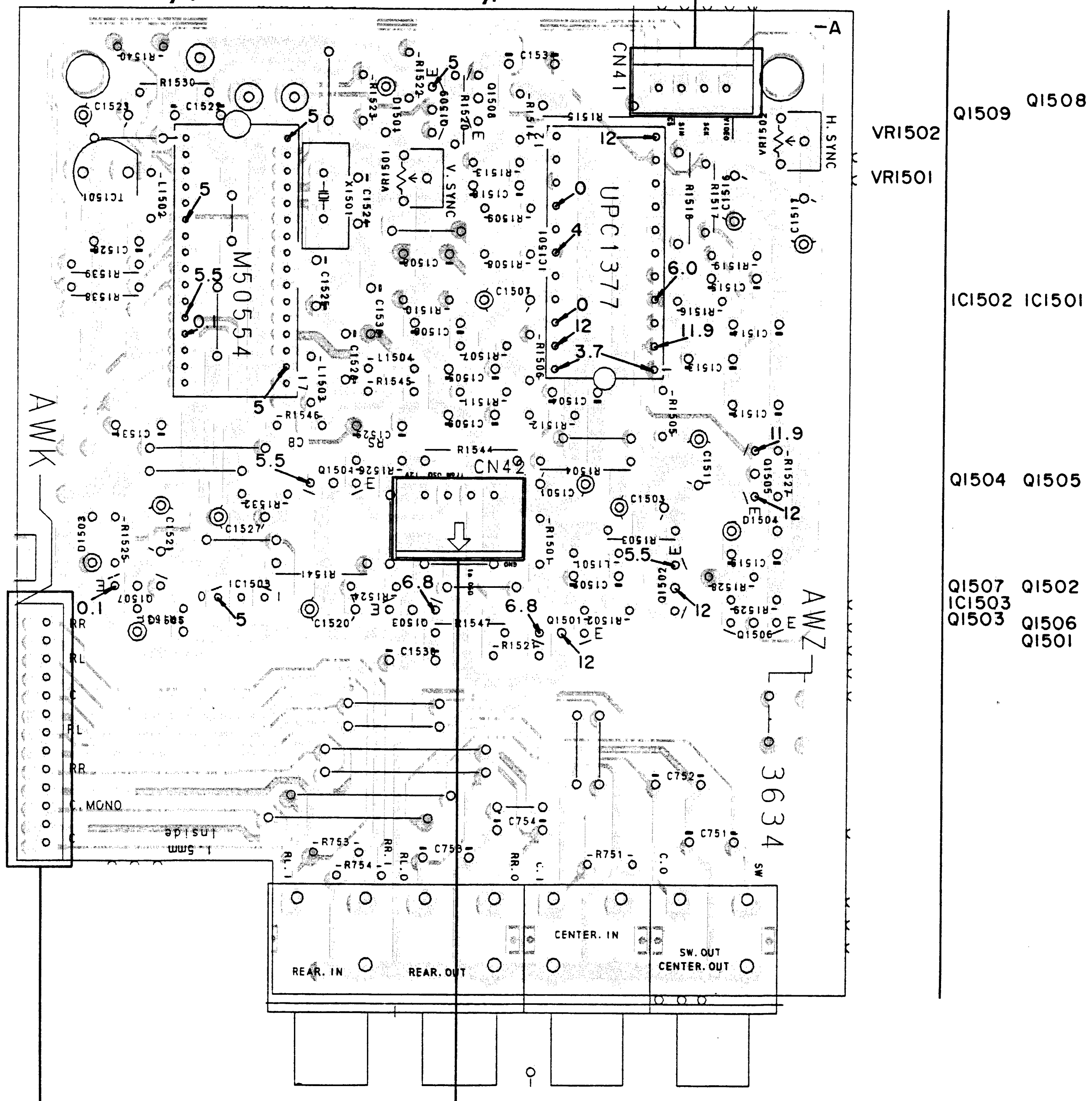

CN41
H. SYNC
VR1502
VR1501
Q1509
Q1508
IC1502
IC1501
Q1504
Q1505
Q1507
IC1503
Q1503
Q1502
Q1506
Q1501
M50554
UPC1377
CN42
V. SYNC
AWK
AWZ 3634
REAR. IN
REAR. OUT
CENTER. IN
SW. OUT
CENTER. OUT
C. MONO

To PS.U-COM assembly
CN58 (➡ P76)

To ENHANCER assembly
J42 (➡ P26)

To FRONT CONTROL assembly
CN1901 (➡ P66)

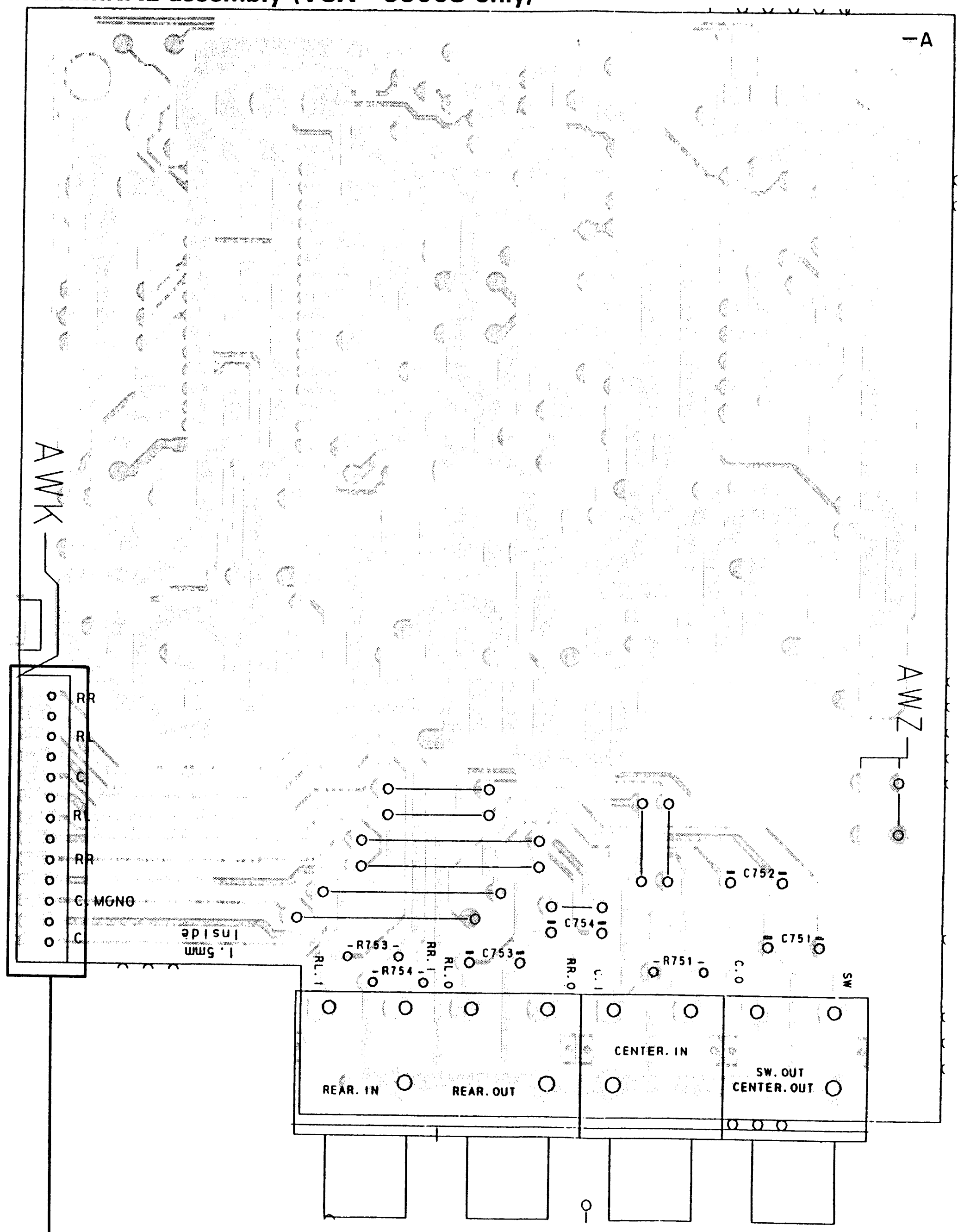
OSD assembly (AWZ3634 : VSX−95 only)


CN41
M50554
UPC1377
CN42
H.SYNC
V.SYNC
VR1502
VR1501
Q1509 Q1508
IC1502 IC1501
Q1504 Q1505
Q1507 Q1502
IC1503
Q1503 Q1506
Q1501
AWK
AWZ
3634
-A
RR
RL
C
MONO
Inside
1.5mm
REAR. IN
REAR. OUT
CENTER. IN
SW. OUT
CENTER. OUT
5
5.5
0.1
11.9
6.0
3.7
12
6.8
5.5

M assembly
(➡ P76)

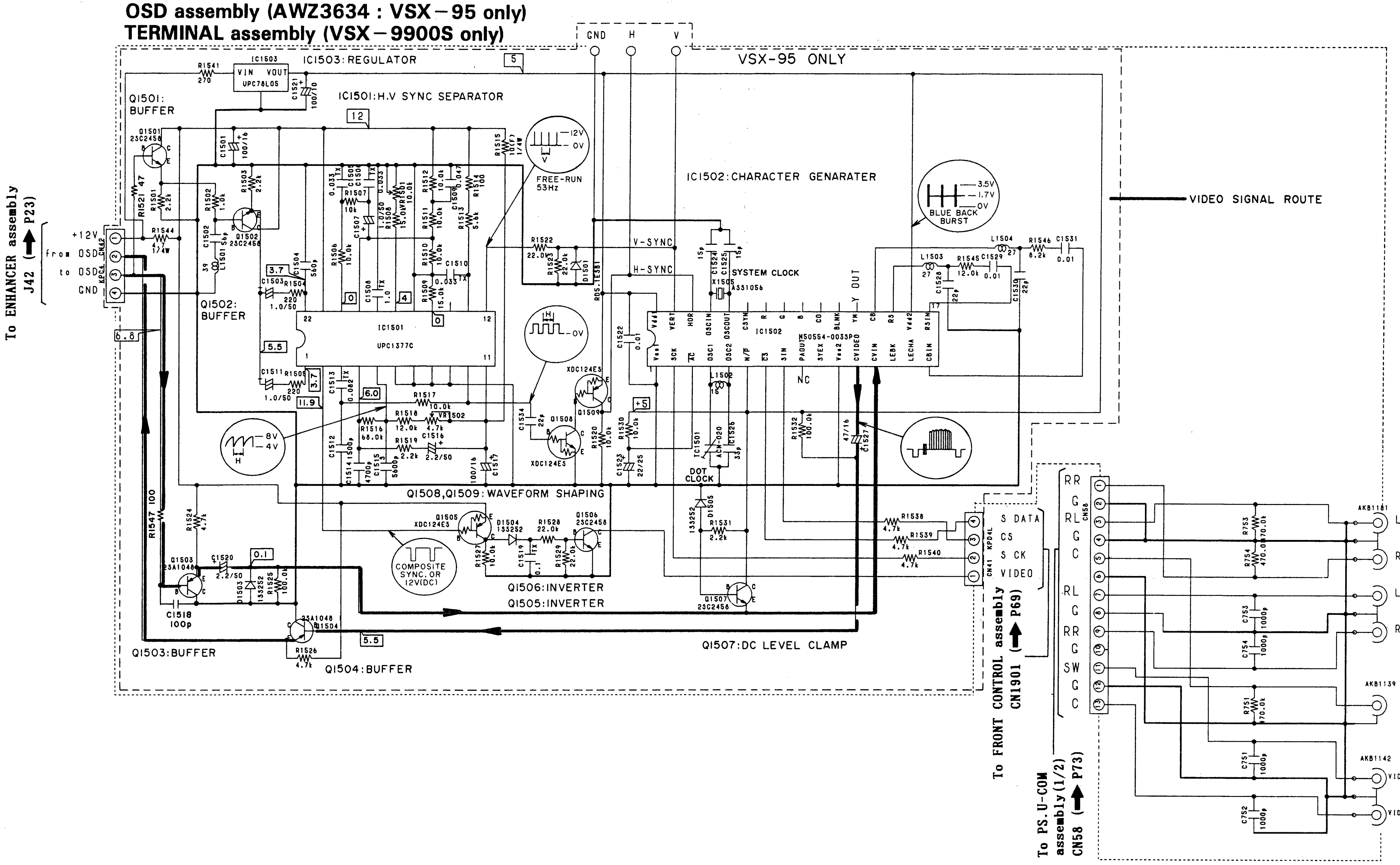
To ENHANCER assembly
J42 (➡ P26)

TERMINAL assembly (VSX−9900S only)

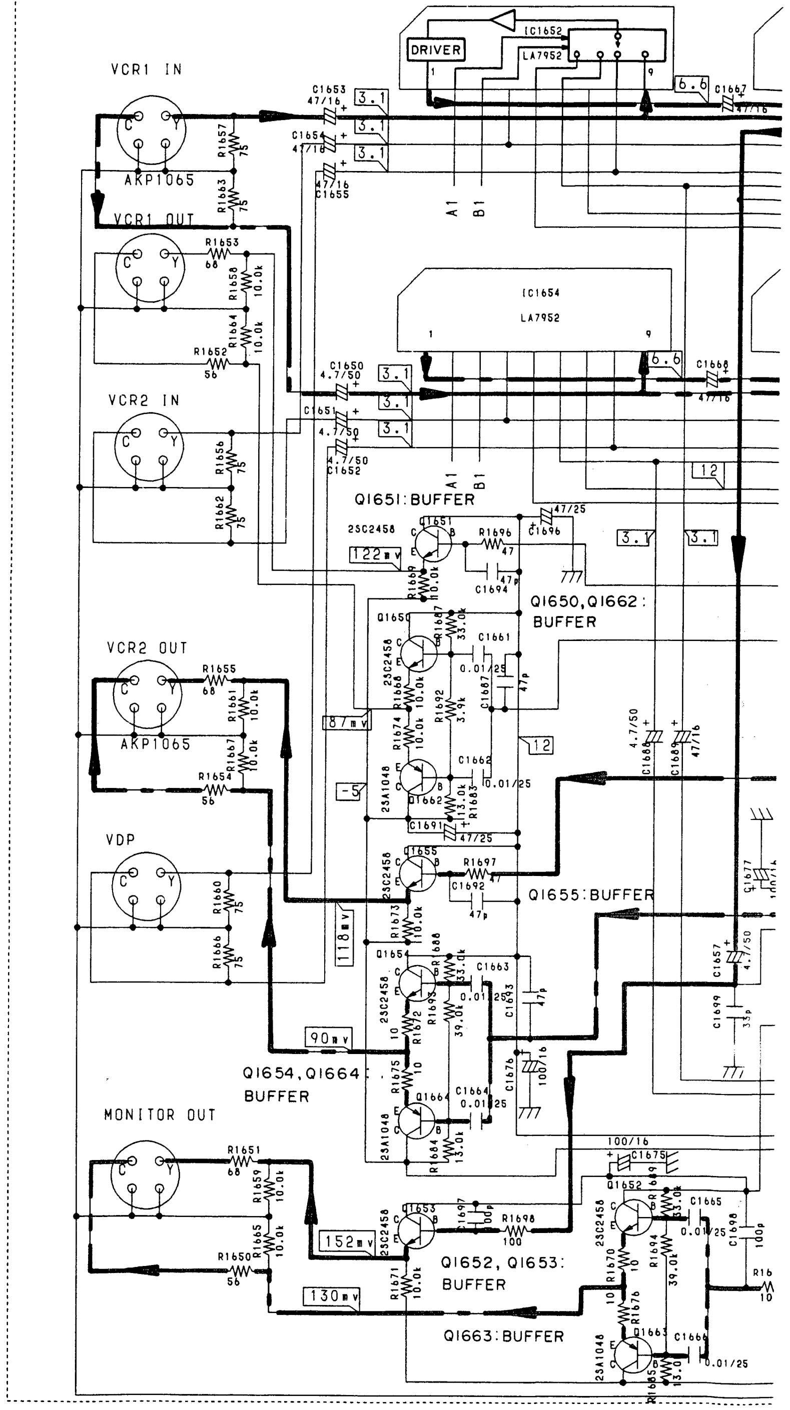

-A
AWK
AWZ
RR
RL
C
MONO
Inside
1.5mm
C752
C751
C753
C754
R751
R753
R754
REAR. IN
REAR. OUT
CENTER. IN
SW. OUT
CENTER. OUT

PS.U-COM assembly
CN58 (➡ P76)

OSD assembly (AWZ3634 : VSX−95 only)
TERMINAL assembly (VSX−9900S only)

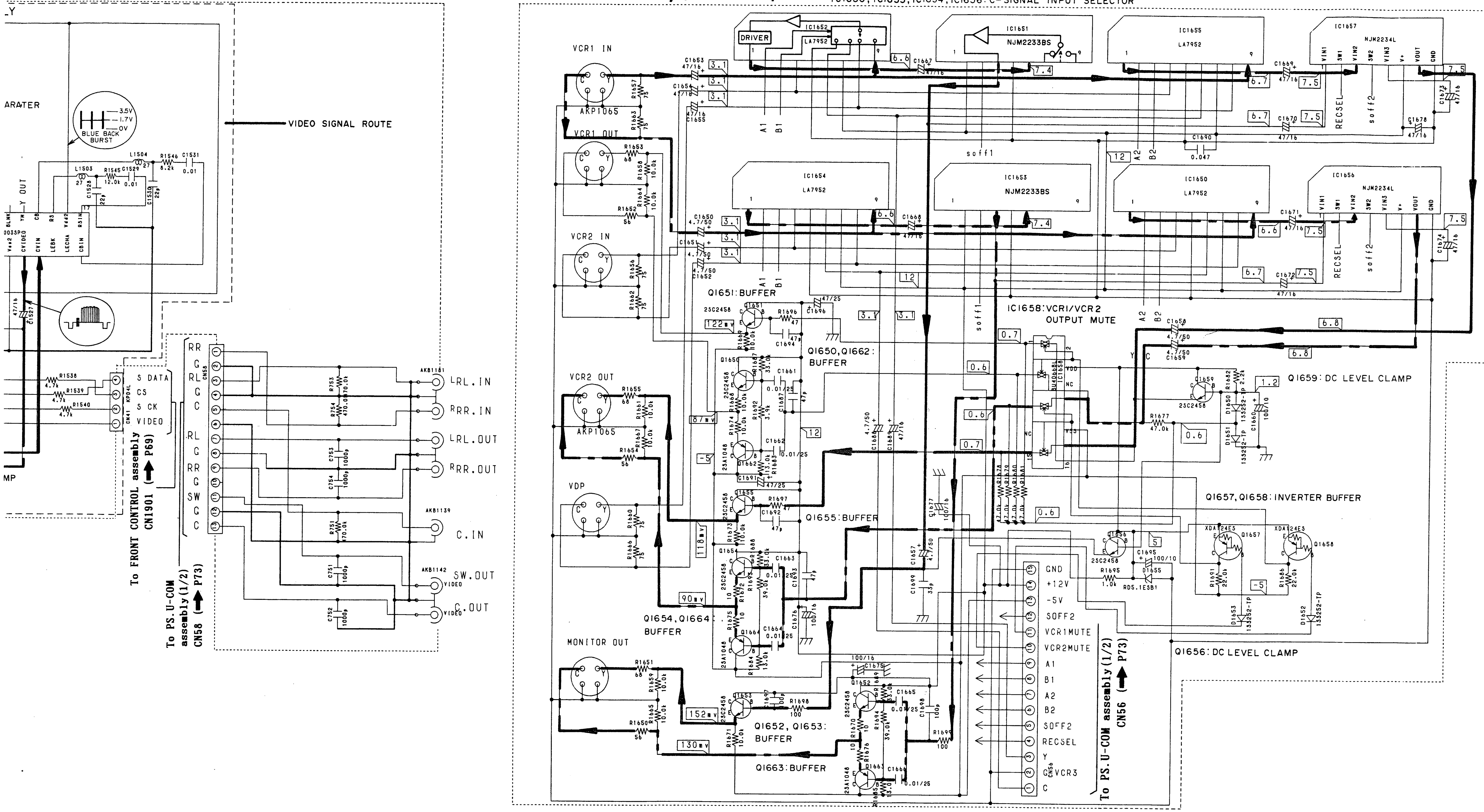

GND
H
V
VSX-95 ONLY
IC1503:REGULATOR
IC1503
VIN VOUT
UPC78L05
IC1501:H.V SYNC SEPARATOR
Q1501:
BUFFER
Q1502:
BUFFER
IC1501
UPC1377C
IC1502:CHARACTER GENARATER
IC1502
M50554-0033P
FREE-RUN
53Hz
12V
0V
3.5V
1.7V
0V
BLUE BACK
BURST
VIDEO SIGNAL ROUTE
V-SYNC
H-SYNC
SYSTEM CLOCK
DOT
CLOCK
Y OUT
NC
8V
4V
Q1508,Q1509:WAVEFORM SHAPING
COMPOSITE
SYNC.OR
12V(DC)
Q1506:INVERTER
Q1505:INVERTER
Q1507:DC LEVEL CLAMP
Q1503:BUFFER
Q1504:BUFFER
+12V
from OSD
to OSD
GND
To ENHANCER assembly
J42 (⬆ P23)
S DATA
CS
S CK
VIDEO
To FRONT CONTROL assembly
CN1901 (⬆ P69)
RR
G
RL
G
C
RL
G
RR
G
SW
G
C
To PS.U-COM
assembly(1/2)
CN58 (⬆ P73)
LRL.IN
RRR.IN
LRL.OUT
RRR.OUT
C.IN
SW.OUT
C.OUT
VIDEO
AKB1181
AKB1139
AKB1142

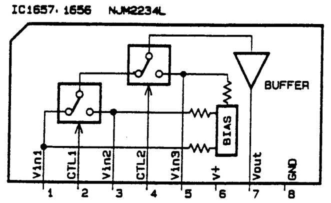
S. VIDEO assembly (AWZ3564)


IC1651, IC1652, IC1655,
IC1650, IC1653, IC1654,
DRIVER
IC1652
LA7952
IC1654
LA7952
VCR1 IN
AKP1065
VCR1 OUT
VCR2 IN
VCR2 OUT
AKP1065
VDP
MONITOR OUT
A1
B1
Q1651:BUFFER
Q1650,Q1662:
BUFFER
Q1655:BUFFER
Q1654,Q1664:
BUFFER
Q1652, Q1653:
BUFFER
Q1663:BUFFER
122mV
87mV
118mV
90mV
152mV
130mV

S. VIDEO assembly (AWZ3564)

IC1651, IC1652, IC1655, IC1657: Y-SIGNAL INPUT SELECTOR
IC1650, IC1653, IC1654, IC1656: C-SIGNAL INPUT SELECTOR


VIDEO SIGNAL ROUTE
ARATER
BLUE BACK BURST
3.5V
1.7V
0V
Y OUT
To FRONT CONTROL assembly CN1901 (➡ P69)
S DATA
CS
S CK
VIDEO
To PS.U-COM assembly(1/2) CN58 (➡ P73)
RR
G
RL
C
RR
G
SW
LRL.IN
RRR.IN
LRL.OUT
RRR.OUT
C.IN
SW.OUT
C.OUT
VCR1 IN
AKP1065
VCR1 OUT
VCR2 IN
VCR2 OUT
VDP
MONITOR OUT
IC1652 LA7952
DRIVER
IC1651 NJM2233BS
IC1655 LA7952
IC1657 NJM2234L
IC1654 LA7952
IC1653 NJM2233BS
IC1650 LA7952
IC1656 NJM2234L
soff1
soff2
RECSEL
A1
B1
A2
B2
Q1651: BUFFER
Q1650, Q1662: BUFFER
Q1655: BUFFER
Q1654, Q1664: BUFFER
Q1652, Q1653: BUFFER
Q1663: BUFFER
IC1658: VCR1/VCR2 OUTPUT MUTE
Q1659: DC LEVEL CLAMP
Q1657, Q1658: INVERTER BUFFER
Q1656: DC LEVEL CLAMP
GND
+12V
-5V
SOFF2
VCR1MUTE
VCR2MUTE
A1
B1
A2
B2
SOFF2
RECSEL
Y
C VCR3
C
To PS.U-COM assembly(1/2) CN56 (➡ P73)
122mV
87mV
118mV
90mV
152mV
130mV


IC1657, 1656 NJM2234L
BUFFER
BIAS
Vin1
CTL1
Vin2
CTL2
Vin3
V+
Vout
GND
1
2
3
4
5
6
7
8

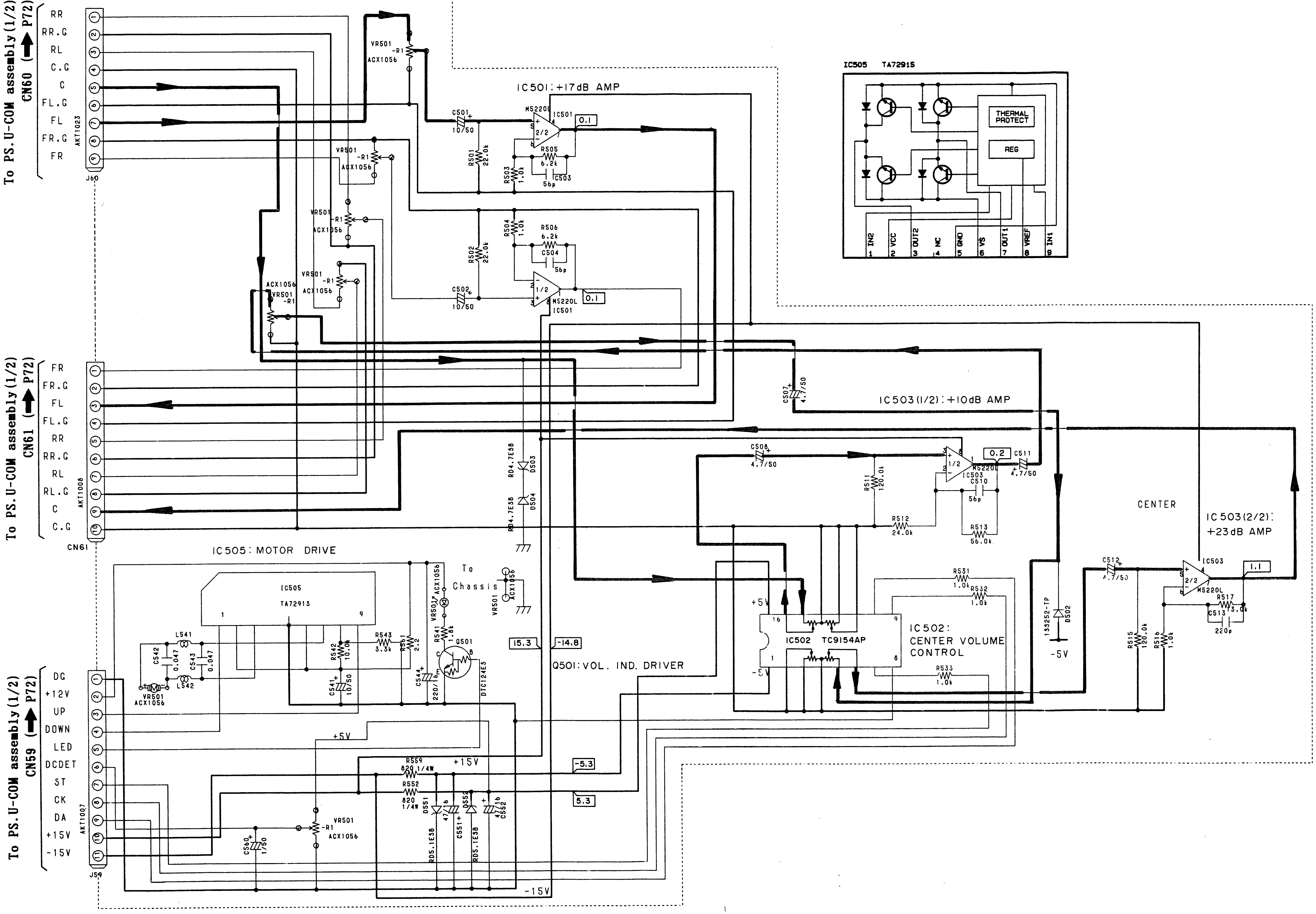
IC1601-1606(NJM2234L)

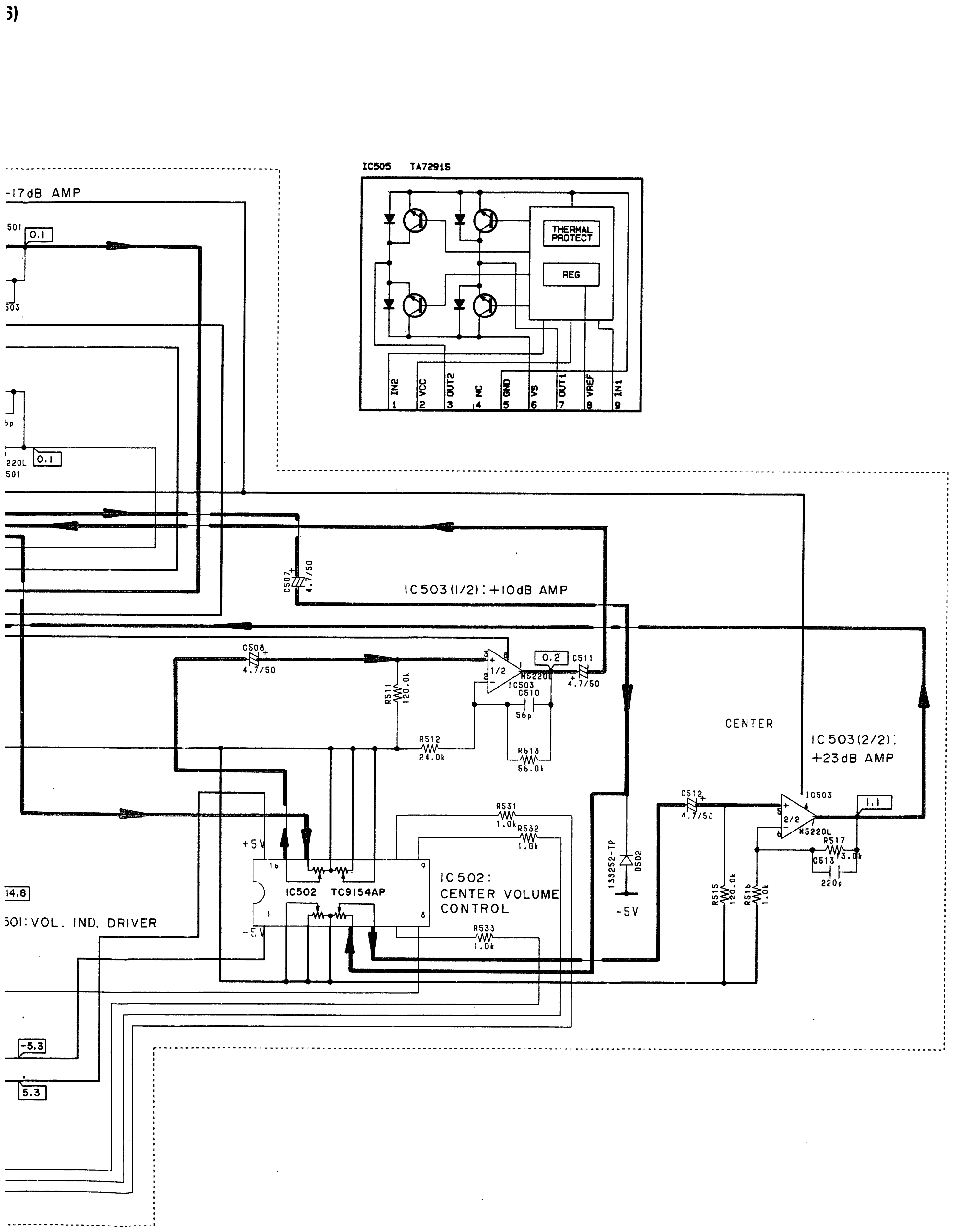
INPUT SIGNAL		OUTPUT SIGNAL
CTL1 (2 PIN)	CTRL2 (4 PIN)	V OUT (7 PIN)
L	L	Vin1(1 PIN)
H	L	Vin2(3 PIN)
L/H	H	Vin3(5 PIN)

━━━ Y-SIGNAL
━ ━ ━ C-SIGNAL

3.7 MOTOR VOLUME (AWZ3567), HEADPHONE and R. C. SPEAKER assembly (AWZ3566)

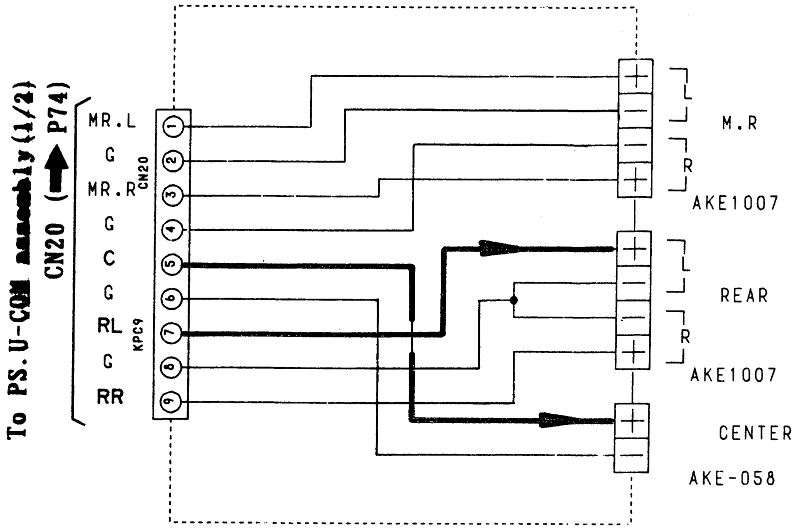
MOTOR VOLUME assembly (AWZ3567)


A
B
C
D
To PS. U-COM assembly (1/2) CN60 (➡ P72)
RR
RR.G
RL
C.G
C
FL.G
FL
FR.G
FR
AKT1023
J60
To PS. U-COM assembly (1/2) CN61 (➡ P72)
FR
FR.G
FL
FL.G
RR
RR.G
RL
RL.G
C
C.G
AKT1008
CN61
To PS. U-COM assembly (1/2) CN59 (➡ P72)
DC
+12V
UP
DOWN
LED
DCDET
ST
CK
DA
+15V
-15V
AKT1007
J59
VR501 -R1 ACX1056
IC501: +17dB AMP
C501 10/50
M5220L
IC501
2/2
1/2
0.1
R501 22.0k
R503 1.0k
R505 6.2k
C503 56p
R502 22.0k
R504 1.0k
R506 6.2k
C504 56p
C502 10/50
IC505 TA7291S
THERMAL PROTECT
REG
1 IN2
2 VCC
3 OUT2
4 NC
5 GND
6 VS
7 OUT1
8 VREF
9 IN1
C507 4.7/50
IC503(1/2): +10dB AMP
C508 4.7/50
R511 120.0k
0.2
C511 4.7/50
IC503
C510 56p
R512 24.0k
R513 56.0k
CENTER
IC503(2/2): +23dB AMP
RD4.7EB
D503
D504
IC505: MOTOR DRIVE
IC505
TA7291S
To Chassis
VR501 ACX1056
L541
L542
C542 0.047
C543 0.047
VR501 ACX1056
R543 3.3k
R542 10.0k
R561 2.2
C541 10/50
C544 220/16
R541 1.8k
Q501
DTC124ES
15.3
-14.8
Q501: VOL. IND. DRIVER
+5V
-5V
IC502
TC9154AP
IC502: CENTER VOLUME CONTROL
R531 1.0k
R532 1.0k
R533 1.0k
1S3252-TP
D502
-5V
C512 4.7/50
R515 120.0k
R516 1.0k
1.1
M5220L
R517 3.0k
C513 220p
+5V
R559 820 1/4W
+15V
R552 820 1/4W
D551
D552
RD5.1EB
C551 47/16
C552 47/16
-5.3
5.3
C560 1/50
VR501 -R1 ACX1056
-15V



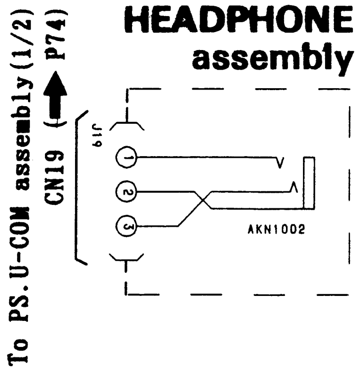
)
-17dB AMP
501
0.1
503
5p
220L
501
0.1
IC505 TA7291S
THERMAL PROTECT
REG
IN2 1
VCC 2
OUT2 3
NC 4
GND 5
VS 6
OUT1 7
VREF 8
IN1 9
C507 4.7/50
IC503(1/2): +10dB AMP
C508 4.7/50
R511 120.0k
1/2
IC503
M5220L
0.2
C511 4.7/50
C510 56p
R512 24.0k
R513 56.0k
CENTER
IC503(2/2): +23dB AMP
C512 4.7/50
IC503
2/2
M5220L
1.1
R517 13.0k
C513 220p
R515 120.0k
R516 1.0k
1SS252-TP
D502
-5V
R531 1.0k
R532 1.0k
R533 1.0k
+5V
-5V
16
9
1
8
IC502 TC9154AP
IC502: CENTER VOLUME CONTROL
14.8
501: VOL. IND. DRIVER
-5.3
5.3

R. C. SPEAKER assembly (AWZ3566)



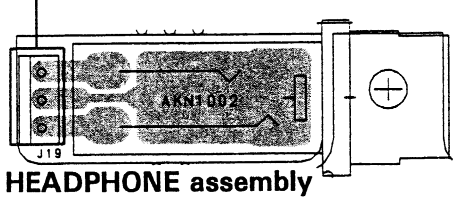
To PS.U-COM assembly (1/2) CN20 (➡ P74)
MR.L
G
MR.R
G
C
G
RL
G
RR
CN20
KPC9
1
2
3
4
5
6
7
8
9
L
M.R
R
AKE1007
L
REAR
R
AKE1007
CENTER
AKE-058

HEADPHONE assembly



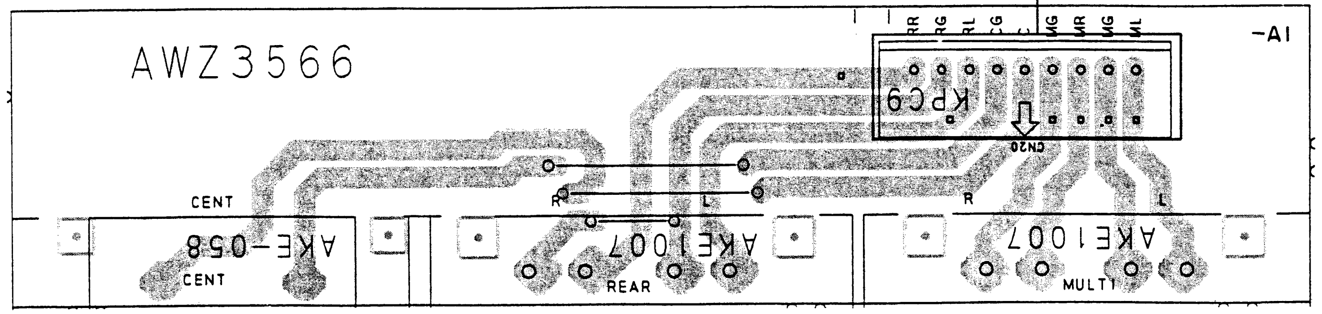
To PS.U-COM assembly (1/2) CN19 (➡ P74)
J19
1
2
3
AKN1002

To PS.U-COM assembly
CN19 (➡ P76)


J19
AKN1002

HEADPHONE assembly

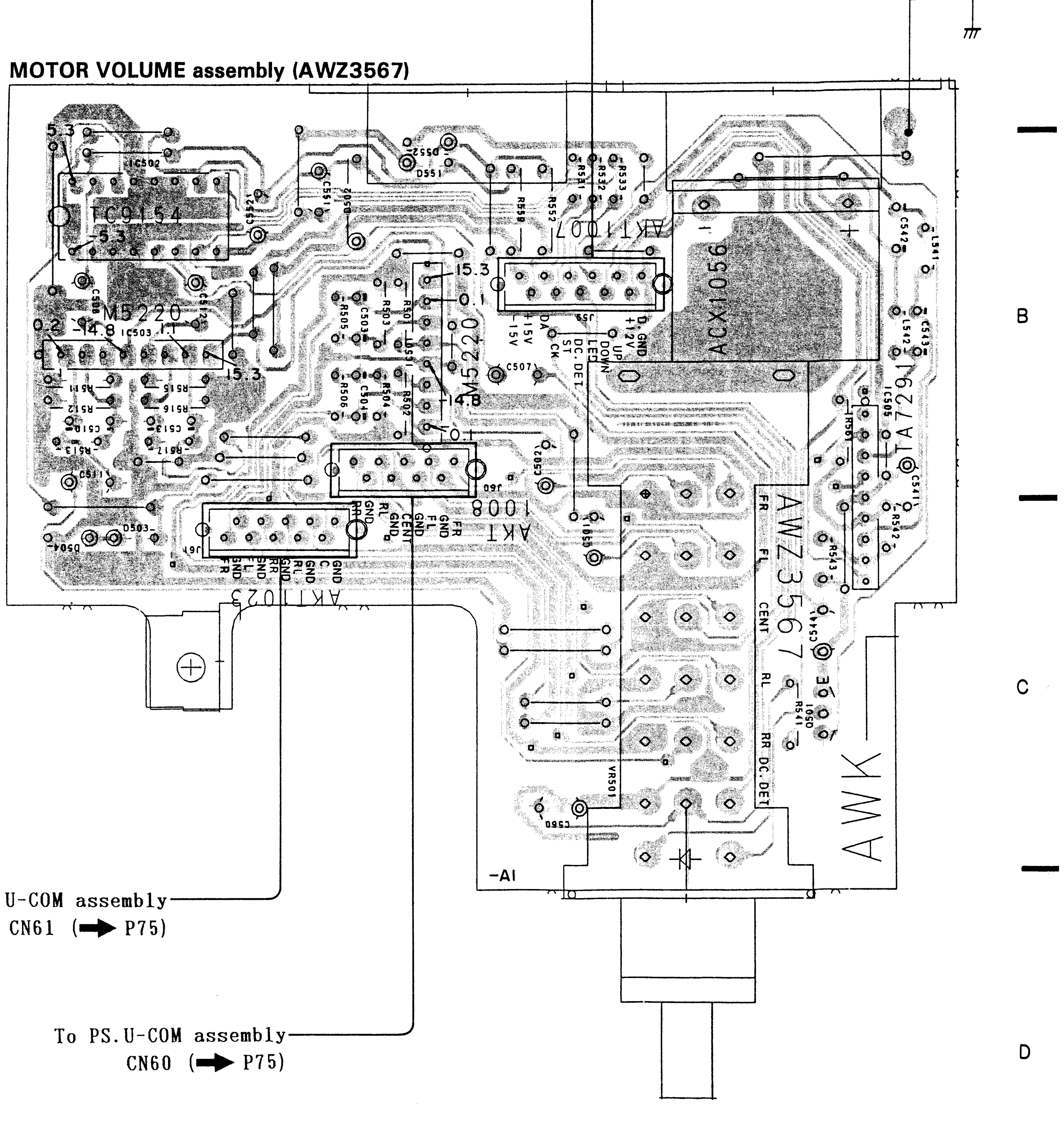
To PS.U-COM assembly
CN20 (➡ P76)


AWZ3566
-A1
KPC9
CN20
RR
RG
RL
CG
C
MR
MG
ML
CENT
R
L
R
L
AKE-058
AKE1007
AKE1007
CENT
REAR
MULTI

R. C. SPEAKER assembly (AWZ3566)

To PS.U-COM assembly
CN59 (➡ P75)

MOTOR VOLUME assembly (AWZ3567)

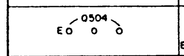
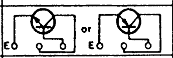
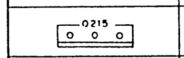
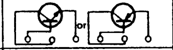
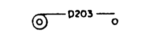
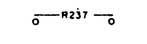
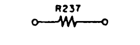
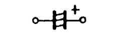
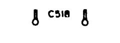
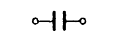

5.3
IC502
TC9154
-5.3
M5220
IC503
-14.8
0.2
15.3
-15.3
0.1
M5220
-14.8
-0.1
AKT1007
J55
ACX1056
+12V
GND
UP
DOWN
LED
DC. DET
ST
CK
DA
+15V
-15V
TA7291
AKT1008
J60
FR
GND
FL
GND
CENT
RL
GND
RR
GND
J61
AKT1023
AWZ3567
FR
FL
CENT
RL
RR
DC. DET
VR501
AWK
-A1
D551
D552
D503
D504
R551
R552
R558
R559
R533
R532
C551
C552
C553
C555
C541
C542
C543
C544
C545
C550
C508
C507
C511
C513
C518
R501
R502
R503
R504
R505
R506
R511
R512
R513
R515
R516
R517
R541
R542
R543
L541
L542
D502
IC505
IC504

To PS.U-COM assembly
CN61 (➡ P75)

To PS.U-COM assembly
CN60 (➡ P75)

NOTE

1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

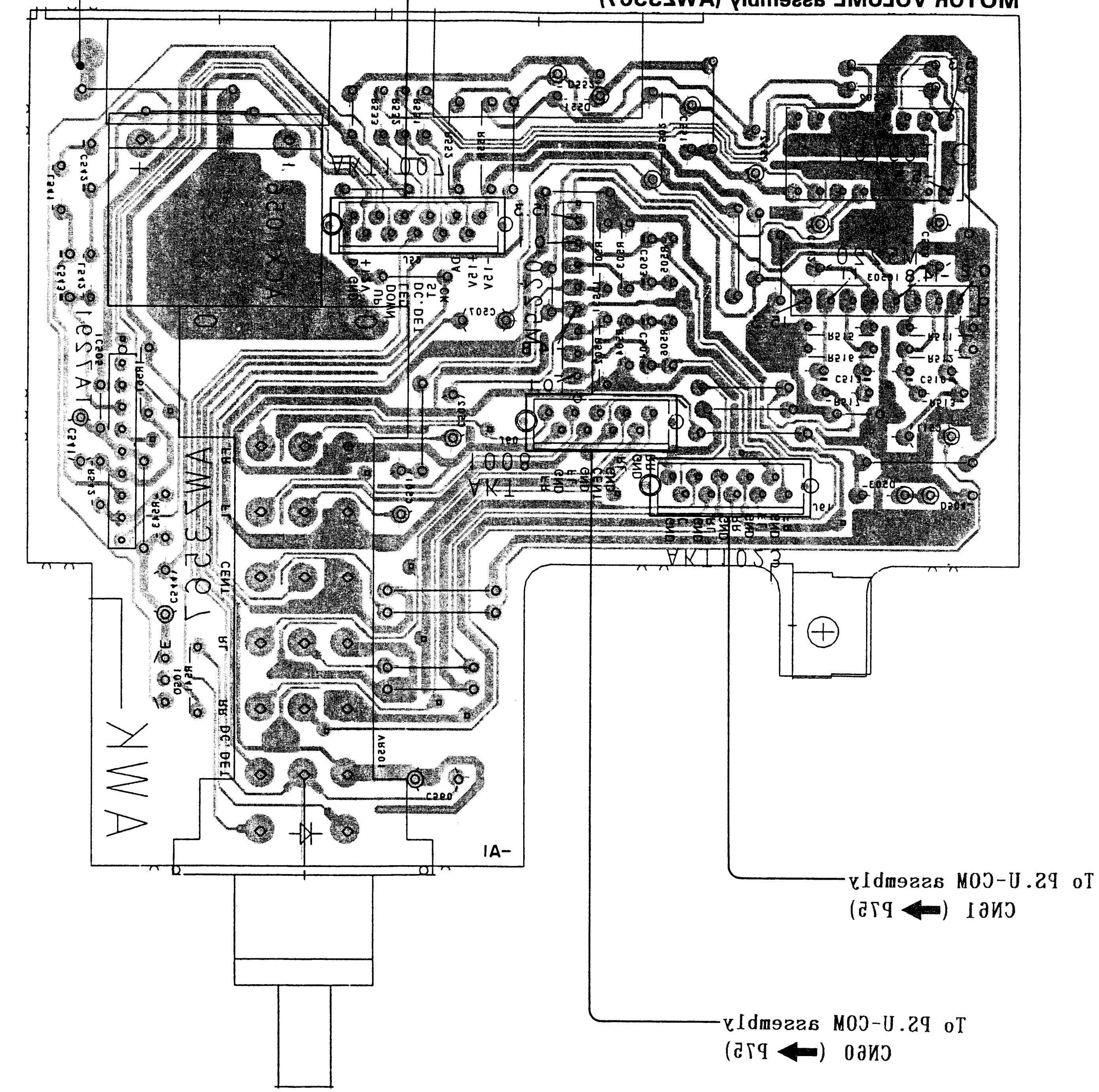
P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Radiator type transistor
		Diode
		Resistor
		Capacitor (Polarity)
		Capacitor (Non-polarity)

Others

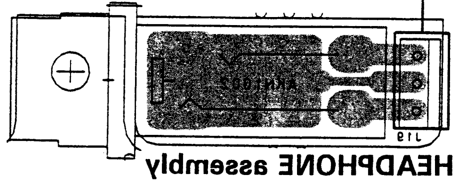
P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

3. The capactor terminal marked with ◎(double circles) shows negatine termianl.
4. The diode terminal marked with ◎(double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

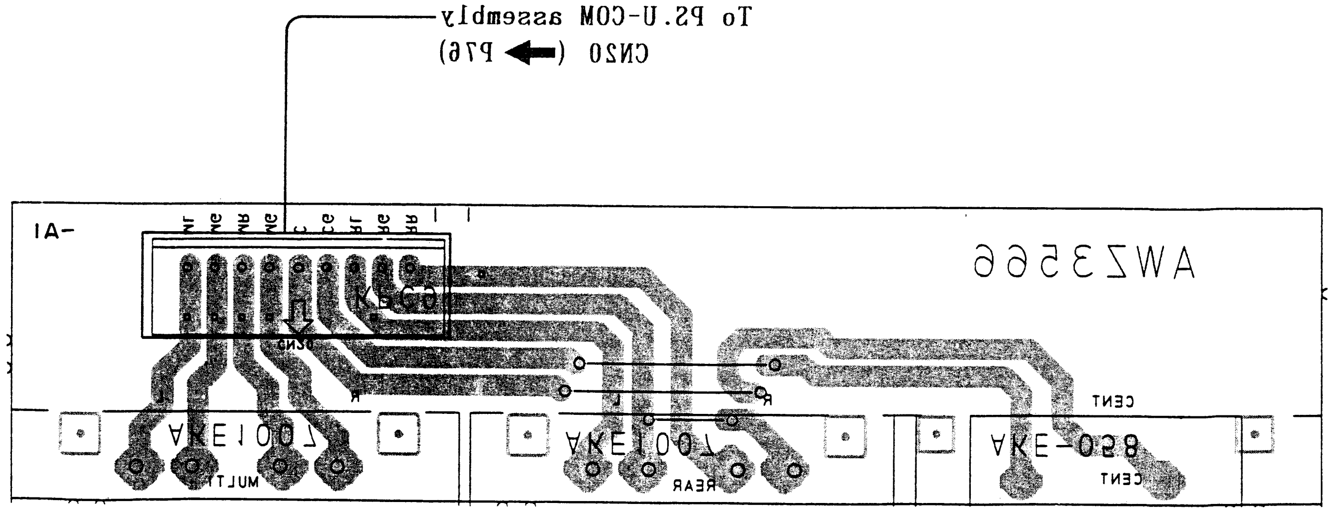
MOTOR VOLUME assembly (AWZ3567)

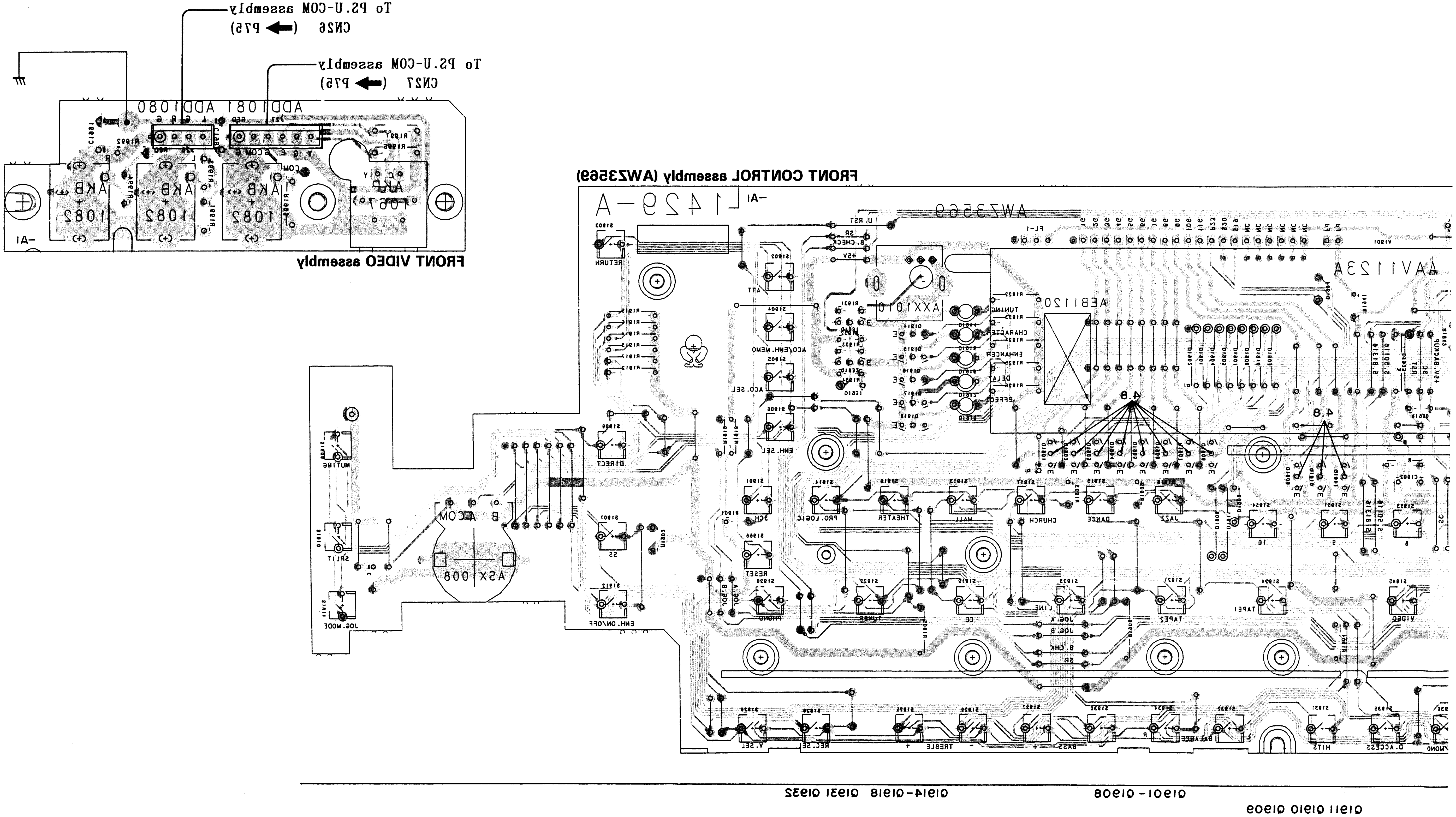

To PS.U-COM assembly
CN59 (➡ P75)
To PS.U-COM assembly
CN61 (➡ P75)
To PS.U-COM assembly
CN60 (➡ P75)
AWZ3567
AKM1008
AKP1025
AWK
A1-

HEADPHONE assembly

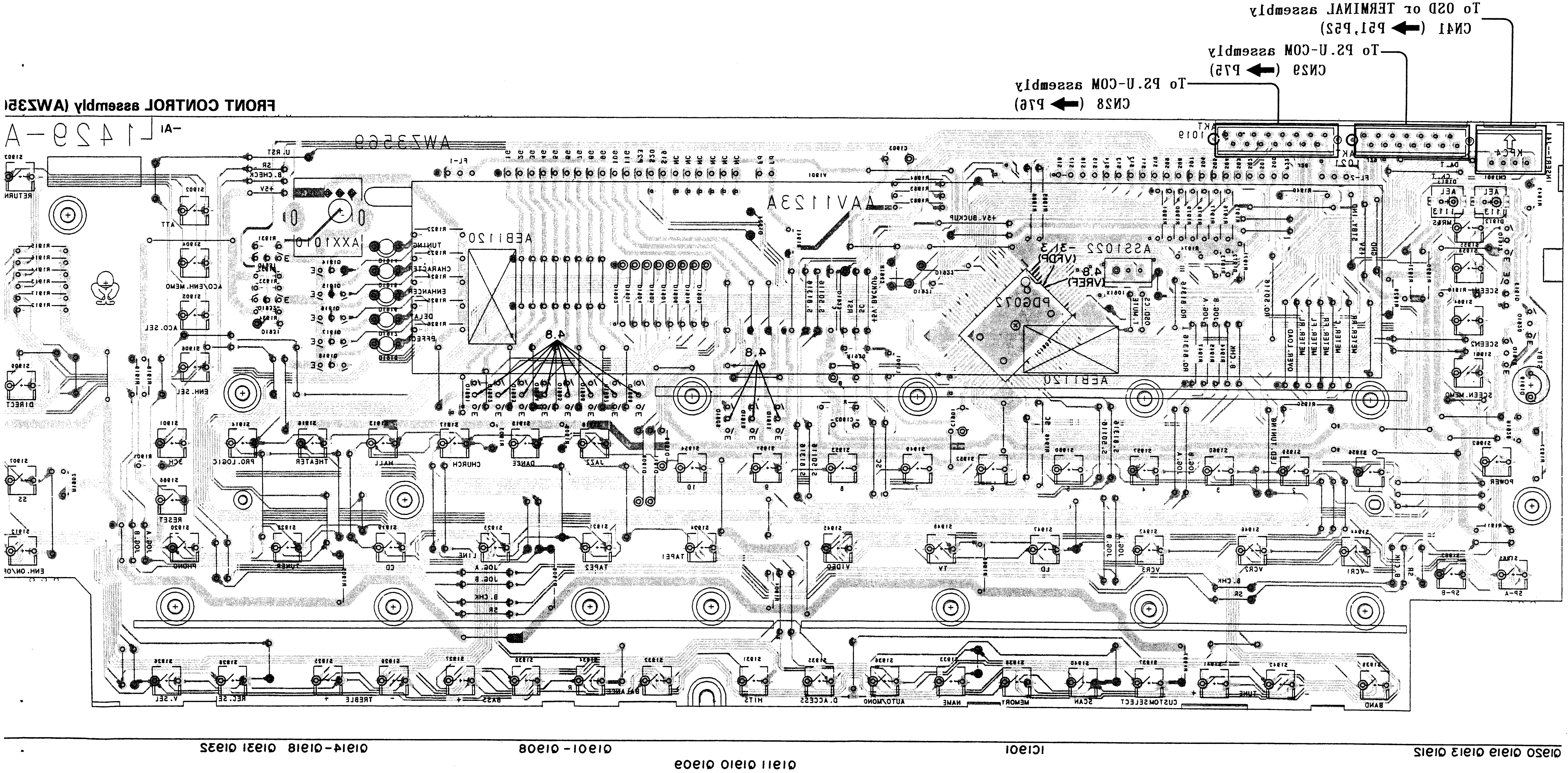

To PS.U-COM assembly
CN19 (➡ P76)
J19

R. C. SPEAKER assembly (AWZ3566)


To PS.U-COM assembly
CN20 (➡ P76)
AWZ3566
A1-
AKE1007
AKE1007
AKE-058
MULTI
REAR
CENT
CENT


To PS.U-COM assembly
CN26 (⬅ P75)
To PS.U-COM assembly
CN27 (⬅ P75)
FRONT VIDEO assembly
FRONT CONTROL assembly (AWZ3569)
ADD1080 ADD1081
AKB1082
AKP1067
ASX1008
AXX1010
AEB1120
AAV1123A
AWZ3569
L1429-A
RETURN
ATT
ACO/ENH. MEMO
ACO. SEL
ENH. SEL
DIRECT
MUTING
SPLIT
JOG. MODE
SS
ENH. ON/OFF
3CH
RESET
PRO. LOGIC
THEATER
HALL
CHURCH
DANCE
JAZZ
PHONO
TUNER
CD
LINE
TAPE2
TAPE1
VIDEO
TUNING
CHARACTER
ENHANCER
DELAY
EFFECT
U. RST
SR
B. CHECK
+5V
JOG. A
JOG. B
B. CHK
V. SEL
REC. SEL
TREBLE
BASS
BALANCE
HITS
D. ACCESS
MONO
4.8
Q1914–Q1918 Q1931 Q1932
Q1901–Q1908
Q1911 Q1910 Q1909

FRONT CONTROL assembly (AWZ356


To OSD or TERMINAL assembly
CN41 (➡ P51,P52)
To PS.U-COM assembly
CN29 (➡ P75)
To PS.U-COM assembly
CN28 (➡ P76)
AWZ3569
L1429-A
AAV1123A
AEB1120
AXX1010
ASS1022 -3.3 (VRDP)
4.8 (VREF)
PDG072
4.8
RETURN
ATT
ACO/ENH.MEMO
ACO.SEL
ENH.SEL
DIRECT
SS
RESET
ENH.ON/OFF
3CH
PRO.LOGIC
THEATER
HALL
CHURCH
DANCE
JAZZ
TUNING
CHARACTER
ENHANCE
DELAY
EFFECT
PHONO
TUNER
CD
LINE
JOG.A
JOG.B
B.CHK
SR
TAPE2
TAPE1
VIDEO
TV
LD
VCR3
VCR2
VCR1
SP-B
SP-A
POWER
SCEEN1
SCEEN2
SCEEN.MEMO
V.SEL
REC.SEL
TREBLE
BASS
BALANCE
HITS
D.ACCESS
AUTO/MONO
NAME
MEMORY
SCAN
CUSTOM SELECT
TUNE
BAND
+5V
SR
B.CHECK
U.RST
+5V.BUCKUP
FL-1
FL-2
A
B
C
D
1
2
3
4
5
6

Q1920 Q1919 Q1913 Q1912

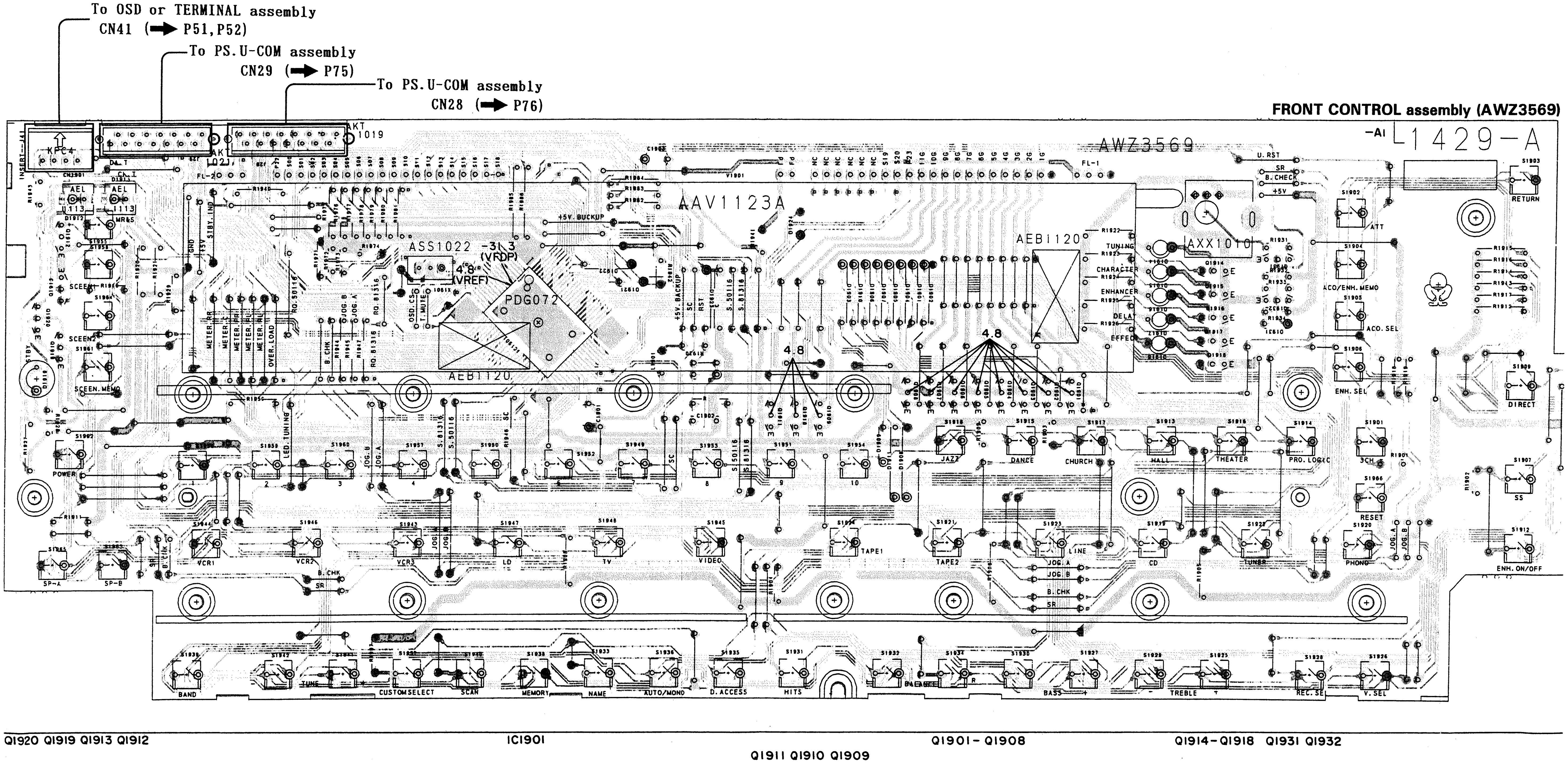
IC1901

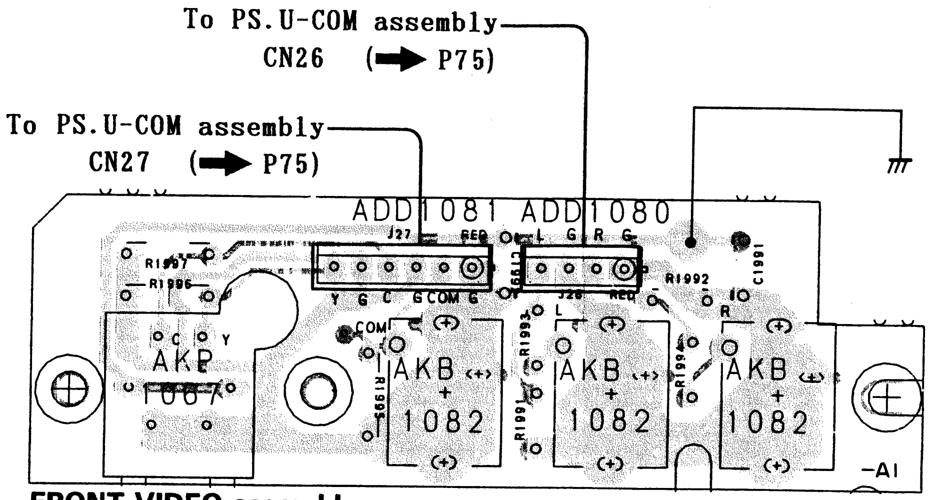
Q1901 - Q1908

Q1914 - Q1918 Q1931 Q1932

Q1911 Q1910 Q1909

3.8 FRONT CONTROL (AWZ3569) and FRONT VIDEO assembly


To OSD or TERMINAL assembly
CN41 (➡ P51,P52)
To PS.U-COM assembly
CN29 (➡ P75)
To PS.U-COM assembly
CN28 (➡ P76)
FRONT CONTROL assembly (AWZ3569)
-AI L1429-A
AWZ3569
AAV1123A
AEB1120
AEB1120
ASS1022 -31 3
4.8 (VFDP)
(VREF)
PDG072
AXX1010
4.8
4.8
KPC4
AKT 1019
AKT 1021
AEL 1113
AEL 1113
+5V. BUCKUP
U. RST
SR
B. CHECK
+5V
TUNING
CHARACTER
ENHANCER
DELAY
EFFECT
METER. RR
METER. L
METER. RL
METER. R
METER. RL
OVER. LOAD
RO. 50116
B. CHK
JOG. B
JOG. A
RO. B1316
OSD. CS
T. MUTE
LED. TUNING
S. 50116
S. B1316
SC
RST
STBY
POWER
SCEEN1
SCEEN2
SCEEN. MEMO
SP-A
SP-B
VCR1
VCR2
VCR3
LD
TV
VIDEO
TAPE1
TAPE2
LINE
CD
TUNER
PHONO
ENH. ON/OFF
2
3
4
5
6
7
8
9
10
JAZZ
DANCE
CHURCH
HALL
THEATER
PRO. LOGIC
3CH
RESET
SS
DIRECT
RETURN
ATT
ACO/ENH. MEMO
ACO. SEL
ENH. SEL
JOG. A
JOG. B
B. CHK
SR
BAND
TUNE
CUSTOMSELECT
SCAN
MEMORY
NAME
AUTO/MONO
D. ACCESS
HITS
BALANCE
L
R
BASS
TREBLE
REC. SEL
V. SEL
Q1920 Q1919 Q1913 Q1912
IC1901
Q1911 Q1910 Q1909
Q1901 - Q1908
Q1914 - Q1918 Q1931 Q1932

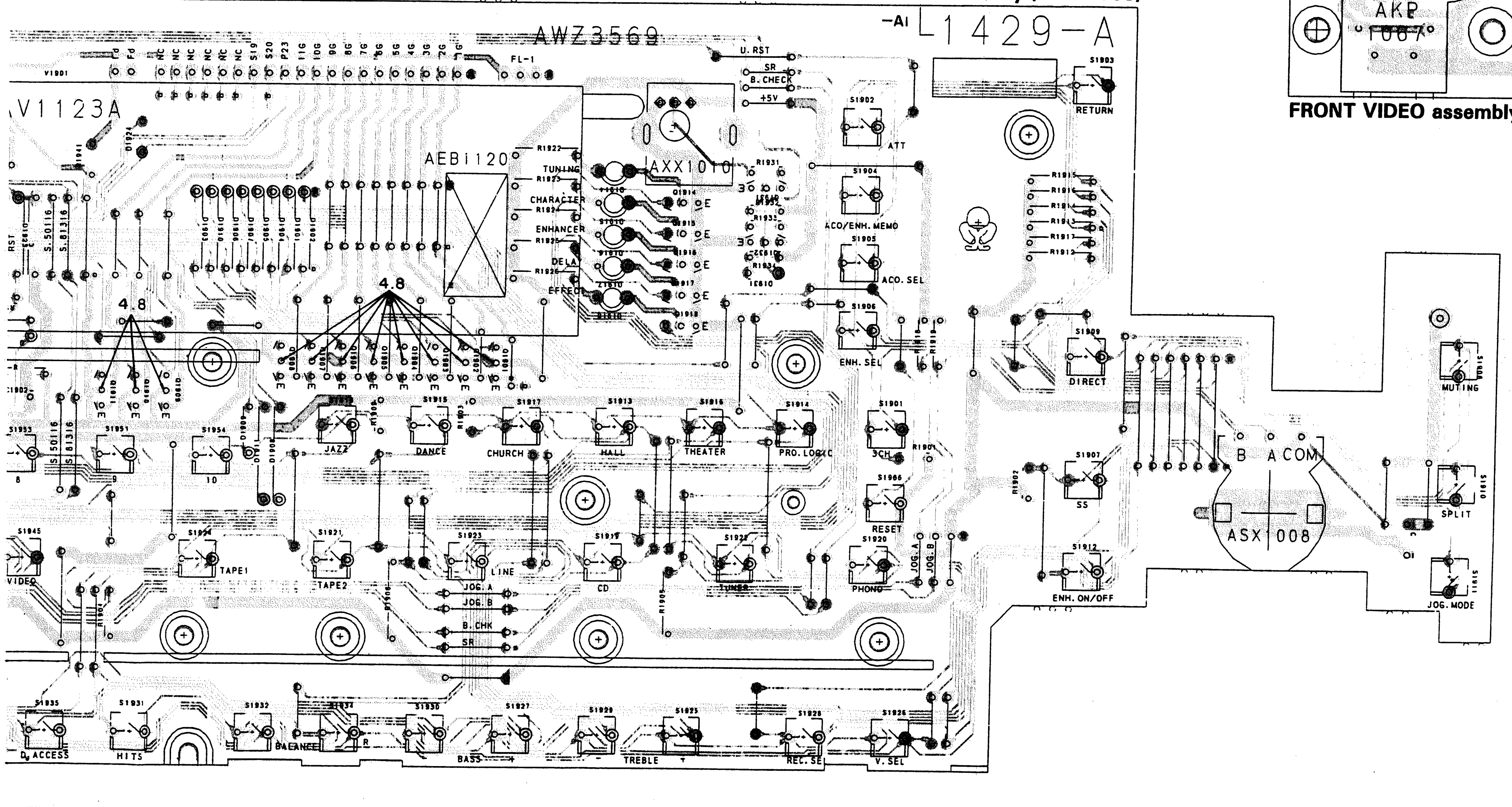

ADD1081
ADD1080
J27
J26
R1997
R1996
R1992
C1991
AKP
1087
AKB
1082
COM
-A1

To PS.U-COM assembly CN26 (➡ P75)

To PS.U-COM assembly CN27 (➡ P75)

FRONT VIDEO assembly

FRONT CONTROL assembly (AWZ3569)


AWZ3569
-A1
L1429-A
V1123A
AEBi120
AXX1010
ASX1008
FL-1
U. RST
SR
B. CHECK
+5V
TUNING
CHARACTER
ENHANCER
DELAY
EFFECT
4.8
RETURN
ATT
ACO/ENH. MEMO
ACO. SEL
ENH. SEL
DIRECT
MUTING
JAZZ
DANCE
CHURCH
HALL
THEATER
PRO. LOGIC
3CH
RESET
PHONO
SS
SPLIT
ENH. ON/OFF
JOG. MODE
B A COM
TAPE1
TAPE2
LINE
CD
TUNER
VIDEO
JOG. A
JOG. B
B. CHK
SR
D. ACCESS
HITS
BALANCE
BASS
TREBLE
REC. SEL
V. SEL

Q1911 Q1910 Q1909 Q1901 - Q1908 Q1914 - Q1918 Q1931 Q1932

NOTE

1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

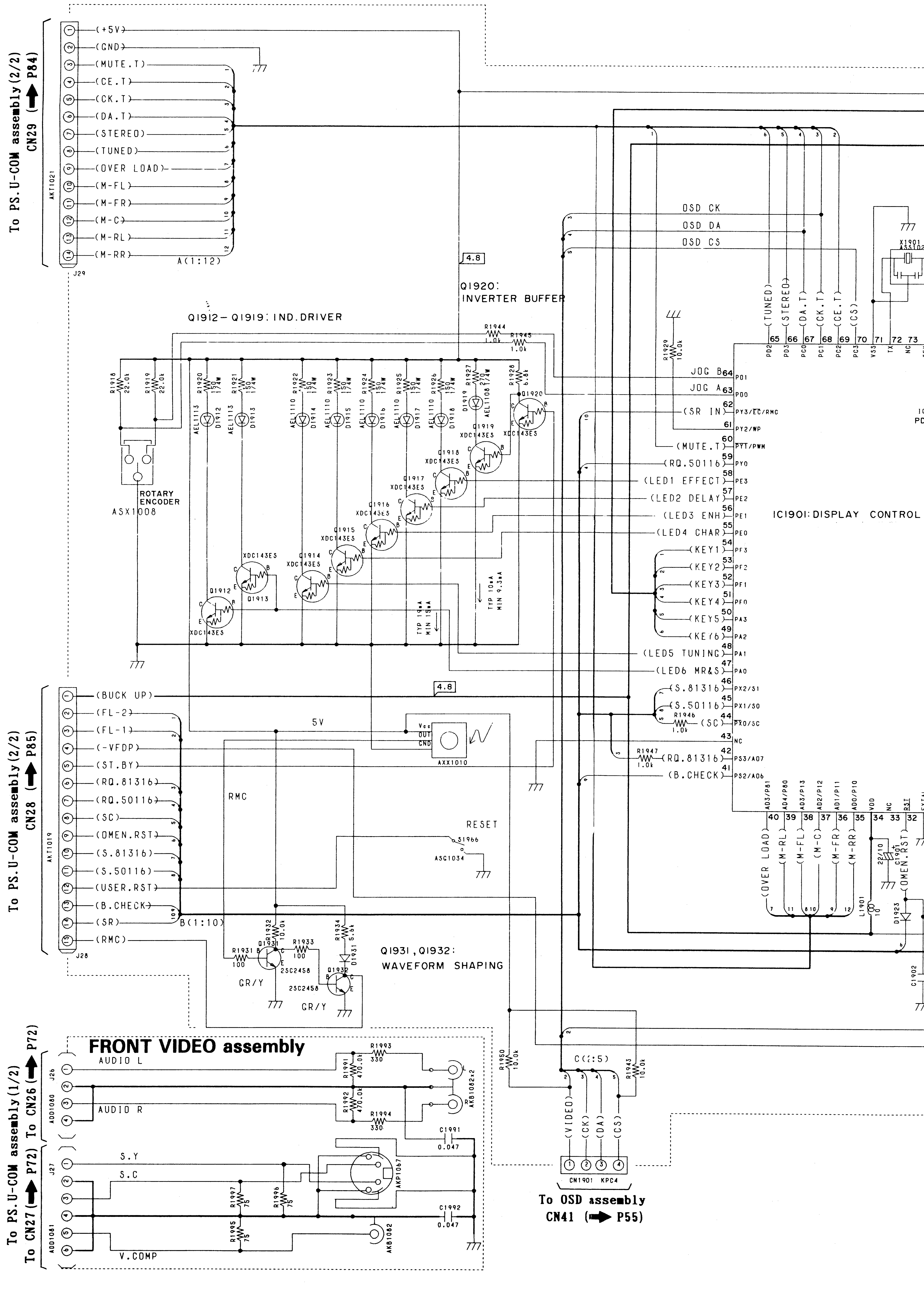
P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
E Q504	E or E	Transistor
Q215	or	Radiator type transistor
D203	D203	Diode
R237	R237	Resistor
C513	+	Capacitor (Polarity)
C518		Capacitor (Non-polarity)

Others

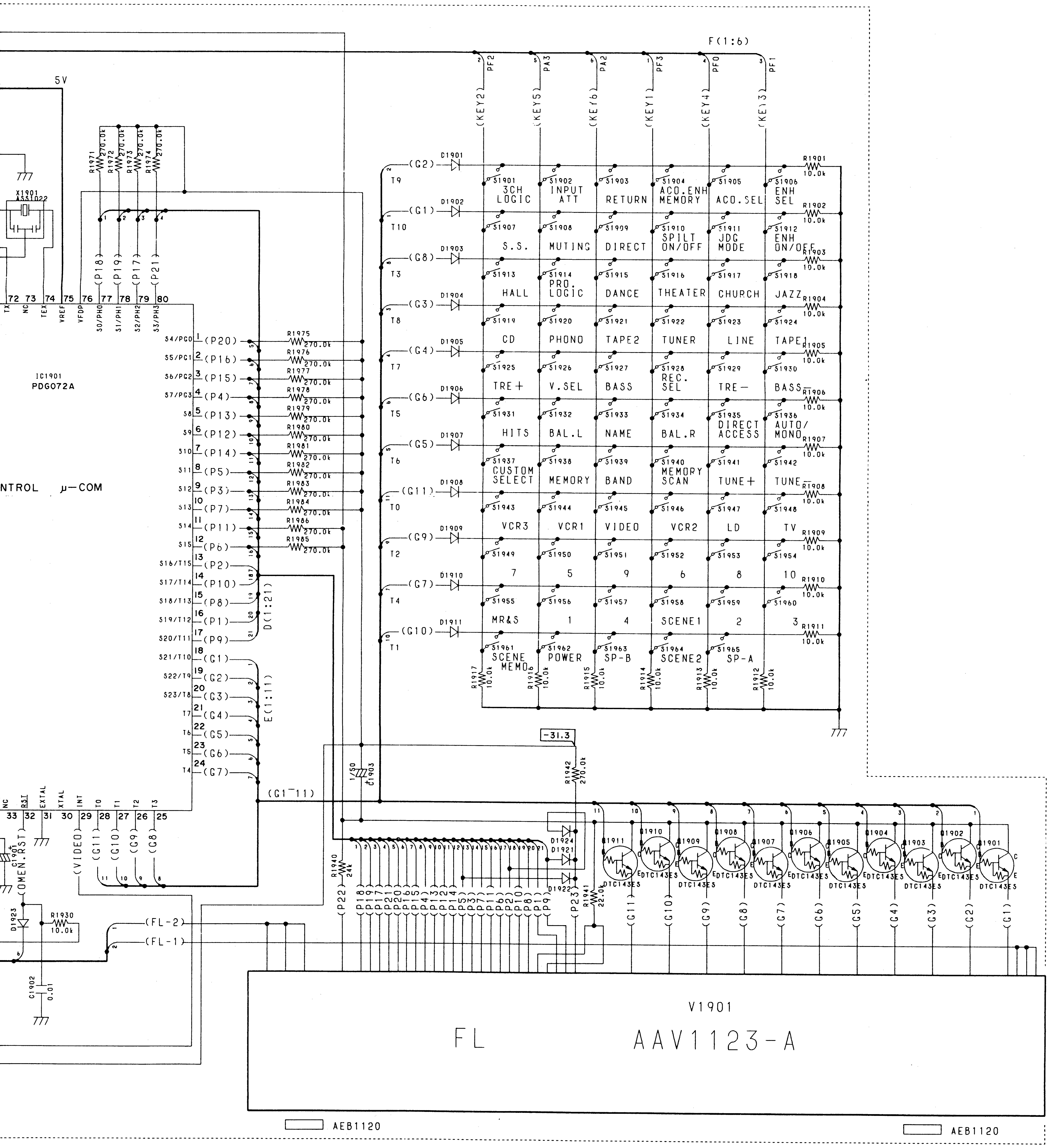
P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

3. The capactor terminal marked with ◎(double circles) shows negatine termianl.
4. The diode terminal marked with ◎(double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

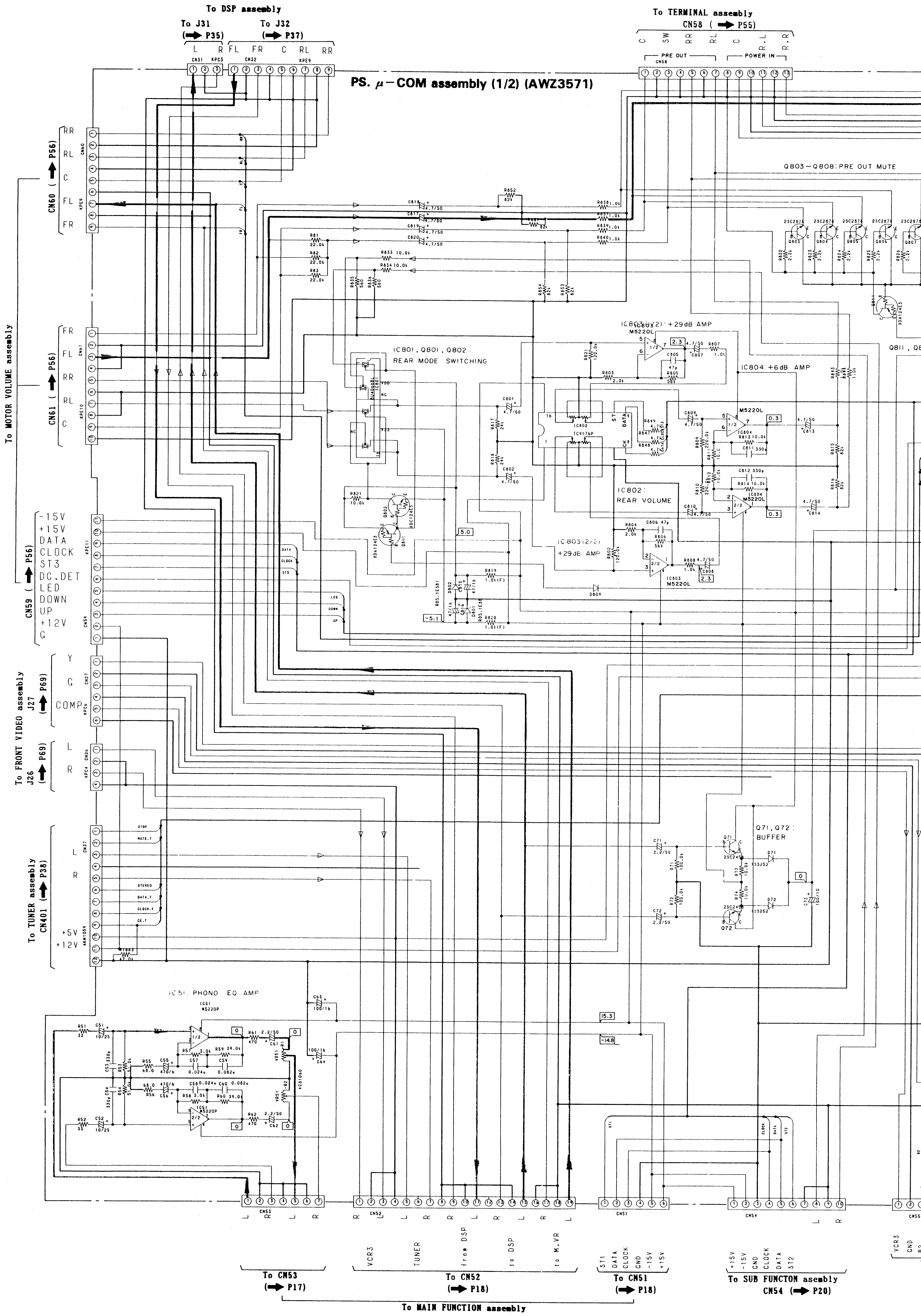
FRONT CONTROL assembly (AWZ3569)

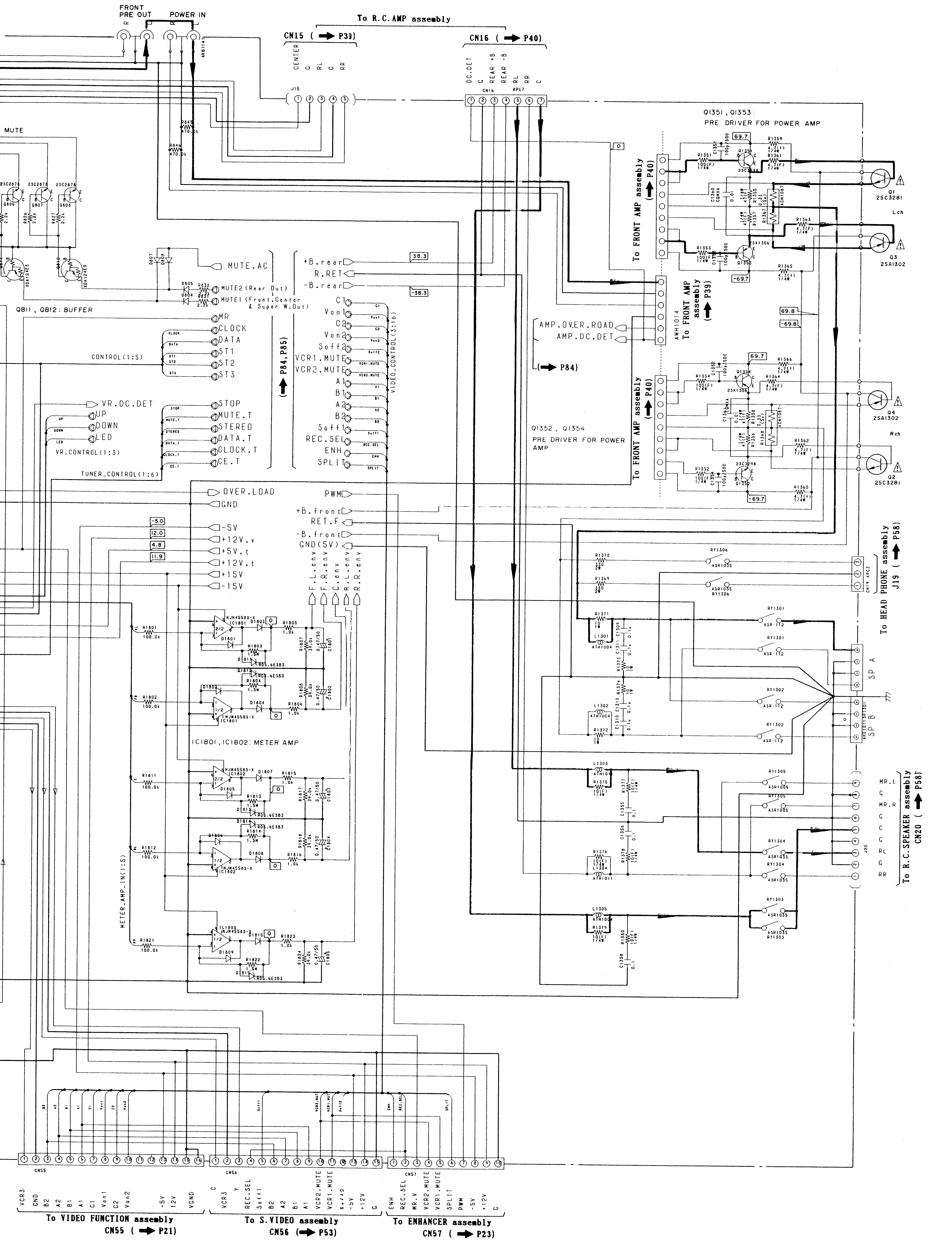

To PS.U-COM assembly (2/2) CN29 (➡ P84)
AKT1021
(+5V)
(GND)
(MUTE.T)
(CE.T)
(CK.T)
(DA.T)
(STEREO)
(TUNED)
(OVER LOAD)
(M-FL)
(M-FR)
(M-C)
(M-RL)
(M-RR)
A(1:12)
J29
4.8
Q1920: INVERTER BUFFER
Q1912–Q1919: IND.DRIVER
R1944 1.0k
R1945 1.0k
R1918 22.0k
R1919 22.0k
R1920 150 1/4W
R1921 150 1/4W
R1922 150 1/4W
R1923 150 1/4W
R1924 150 1/4W
R1925 150 1/4W
R1926 150 1/4W
R1927 220 1/4W
R1928 6.8k
AEL1113 D1912
AEL1113 D1913
AEL1110 D1914
AEL1110 D1915
AEL1110 D1916
AEL1110 D1917
AEL1110 D1918
D1919 AEL1108
Q1920 XDC143ES
Q1919 XDC143ES
Q1918 XDC143ES
Q1917 XDC143ES
Q1916 XDC143ES
Q1915 XDC143ES
Q1914 XDC143ES
Q1913 XDC143ES
Q1912 XDC143ES
ROTARY ENCODER ASX1008
TYP 19mA MIN 15mA
TYP 10mA MIN 9.3mA
OSD CK
OSD DA
OSD CS
R1929 10.0k
JOG B
JOG A
(SR IN)
(MUTE.T)
(RQ.50116)
(LED1 EFFECT)
(LED2 DELAY)
(LED3 ENH)
(LED4 CHAR)
(KEY1)
(KEY2)
(KEY3)
(KEY4)
(KEY5)
(KEY6)
(LED5 TUNING)
(LED6 MR&S)
(S.81316)
(S.50116)
R1946 1.0k (SC)
R1947 1.0k (RQ.81316)
(B.CHECK)
IC1901: DISPLAY CONTROL
(TUNED) (STEREO) (DA.T) (CK.T) (CE.T) (CS)
65 66 67 68 69 70 71 72 73
PD2 PD3 PC0 PC1 PC2 PC3 VSS TX NC
64 P01
63 P00
62 PY3/EC/RMC
61 PY2/WP
60 PY1/PWM
59 PY0
58 PE3
57 PE2
56 PE1
55 PE0
54 PF3
53 PF2
52 PF1
51 PF0
50 PA3
49 PA2
48 PA1
47 PA0
46 PX2/SI
45 PX1/SO
44 PX0/SC
43 NC
42 PS3/AD7
41 PS2/AD6
AD3/P81 AD4/P80 AD3/P13 AD2/P12 AD1/P11 AD0/P10 VDD NC RST
40 39 38 37 36 35 34 33 32
(OVER LOAD) (M-RL) (M-FL) (M-C) (M-FR) (M-RR)
C1904 22/10
(OMEN.RST)
L1901 10
D1923
C1902
X1901
To PS.U-COM assembly (2/2) CN28 (➡ P85)
AKT1019
(BUCK UP)
(FL-2)
(FL-1)
(-VFDP)
(ST.BY)
(RQ.81316)
(RQ.50116)
(SC)
(OMEN.RST)
(S.81316)
(S.50116)
(USER.RST)
(B.CHECK)
(SR)
(RMC)
B(1:10)
J28
5V
Vcc OUT GND
AXX1010
RMC
RESET
S1966 ASG1034
R1932 10.0k
R1934 5.6k
R1931 100
R1933 100
Q1931 2SC2458 GR/Y
Q1932 2SC2458 GR/Y
D1931
Q1931, Q1932: WAVEFORM SHAPING
R1950 10.0k
R1943 10.0k
C(1:5)
(VIDEO) (CK) (DA) (CS)
CN1901 KPC4
FRONT VIDEO assembly
To PS.U-COM assembly (1/2) To CN26 (➡ P72)
J26
ADD1080
AUDIO L
AUDIO R
R1993 330
R1991 470.0k
R1992 470.0k
R1994 330
AKB1082x2
C1991 0.047
To PS.U-COM assembly (2/2) To CN27 (➡ P72)
J27
ADD1081
S.Y
S.C
AKP1067
R1997 75
R1996 75
R1995 75
C1992 0.047
AKB1082
V.COMP

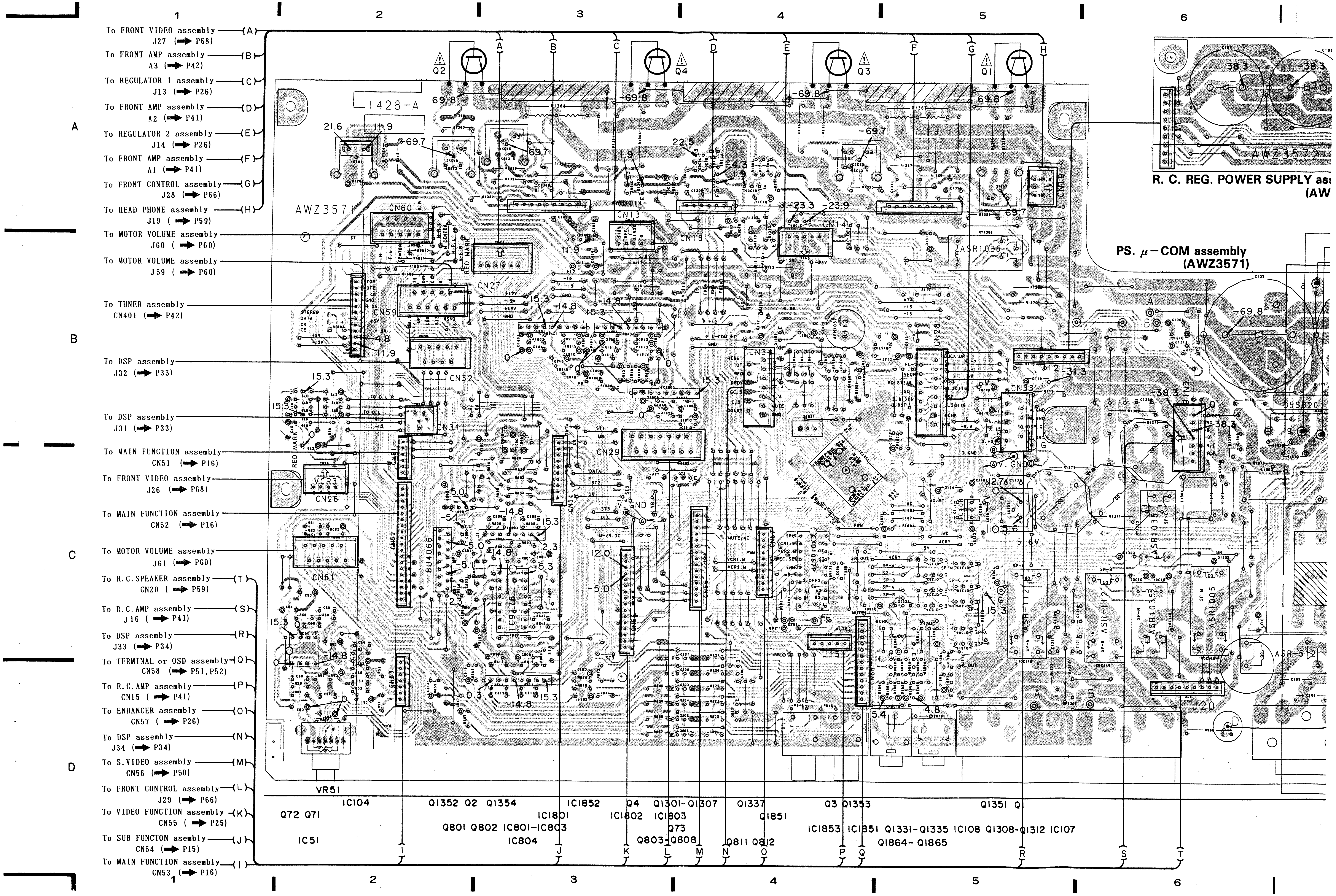
To OSD assembly CN41 (➡ P55)

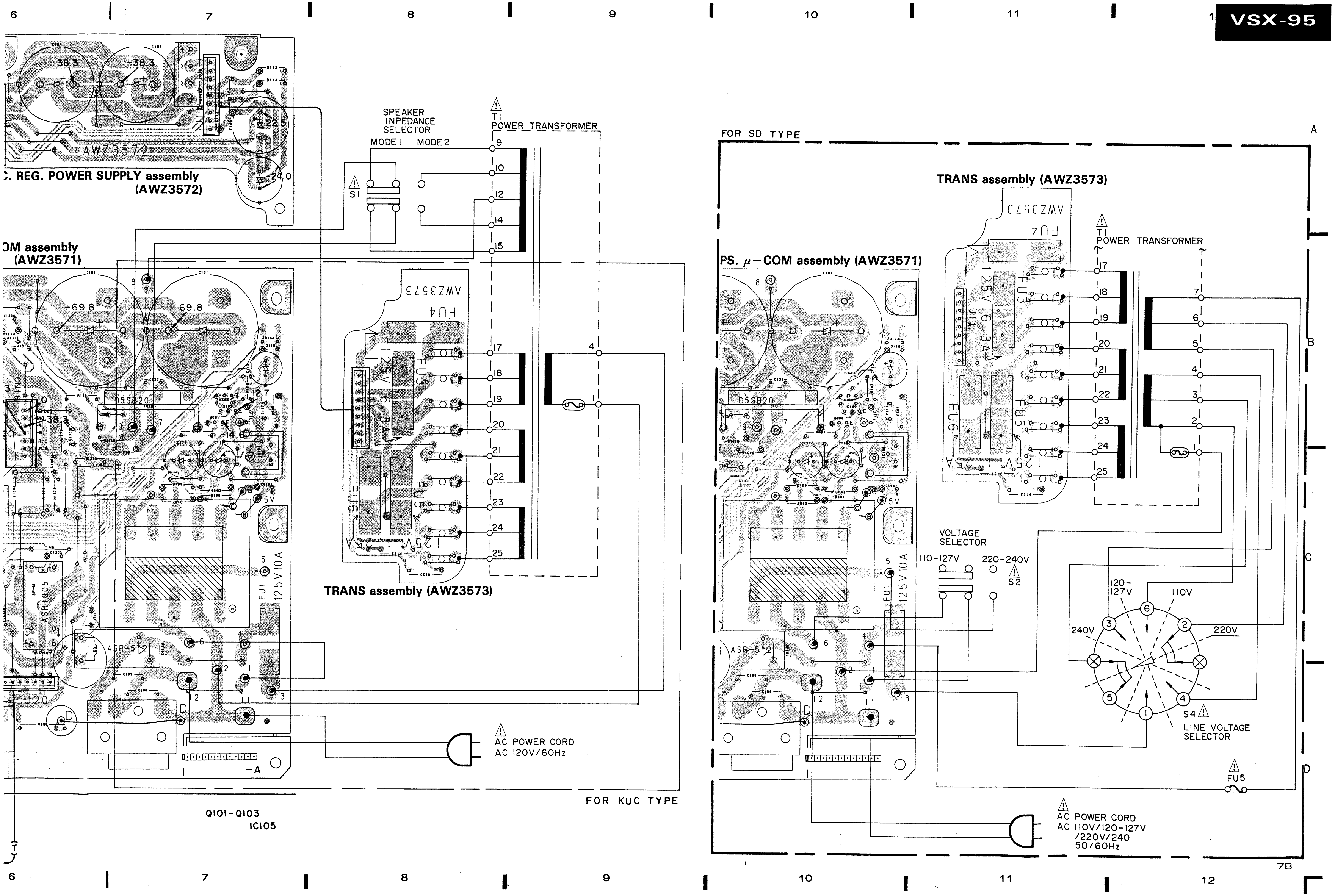

5V
X1901
ASS1022
IC1901
PDG072A
NTROL μ-COM
F(1:6)
PF2
PA3
PA2
PF3
PF0
PF1
(KEY2)
(KEY5)
(KEY6)
(KEY1)
(KEY4)
(KEY3)
S1901 3CH LOGIC
S1902 INPUT ATT
S1903 RETURN
S1904 ACO.ENH MEMORY
S1905 ACO.SEL
S1906 ENH SEL
S1907 S.S.
S1908 MUTING
S1909 DIRECT
S1910 SPILT ON/OFF
S1911 JDG MODE
S1912 ENH ON/OFF
S1913 HALL
S1914 PRO. LOGIC
S1915 DANCE
S1916 THEATER
S1917 CHURCH
S1918 JAZZ
S1919 CD
S1920 PHONO
S1921 TAPE2
S1922 TUNER
S1923 LINE
S1924 TAPE1
S1925 TRE+
S1926 V.SEL
S1927 BASS
S1928 REC. SEL
S1929 TRE−
S1930 BASS−
S1931 HITS
S1932 BAL.L
S1933 NAME
S1934 BAL.R
S1935 DIRECT ACCESS
S1936 AUTO/ MONO
S1937 CUSTOM SELECT
S1938 MEMORY
S1939 BAND
S1940 MEMORY SCAN
S1941 TUNE+
S1942 TUNE−
S1943 VCR3
S1944 VCR1
S1945 VIDEO
S1946 VCR2
S1947 LD
S1948 TV
S1949 7
S1950 5
S1951 9
S1952 6
S1953 8
S1954 10
S1955 MR&S
S1956 1
S1957 4
S1958 SCENE1
S1959 2
S1960 3
S1961 SCENE MEMO
S1962 POWER
S1963 SP-B
S1964 SCENE2
S1965 SP-A
D1901–D1911
R1901–R1911 10.0k
R1912–R1917 10.0k
R1971–R1974 270.0k
R1975–R1986 270.0k
D(1:21)
E(1:11)
(G1~11)
-31.3
R1942 270.0k
C1903 1/50
R1940 24k
R1941 22.0k
D1921
D1922
D1924
Q1901–Q1911 DTC143ES
R1930 10.0k
D1923
C1901
C1902 0.01
OMEN.RST
(FL-2)
(FL-1)
V1901
FL AAV1123-A
AEB1120
AEB1120

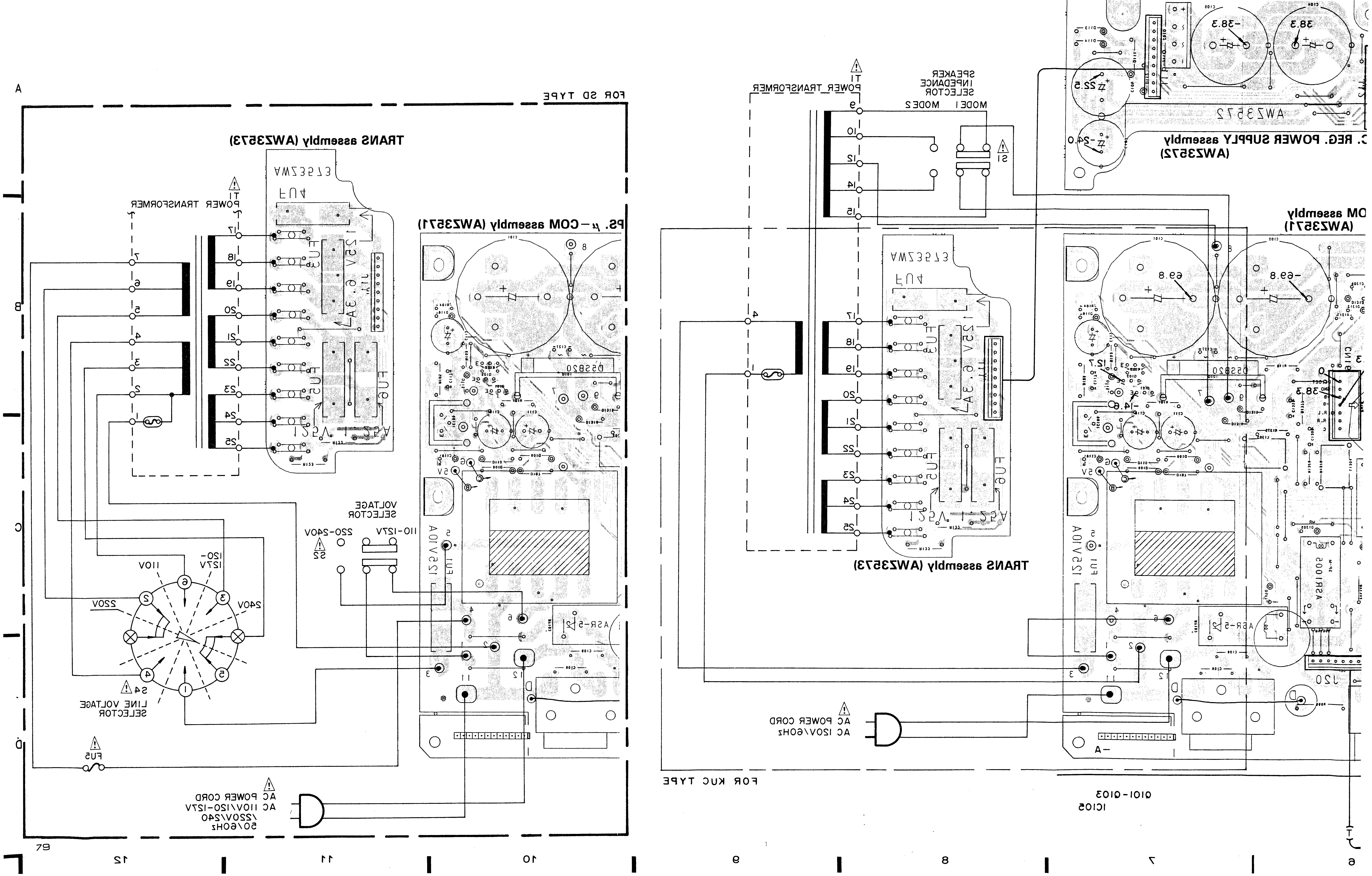
3.9 PS. μ-COM (AWZ3571), R. C. REG POWER SUPPLY (AWZ3572) and TRANS assembly (AWZ3573)

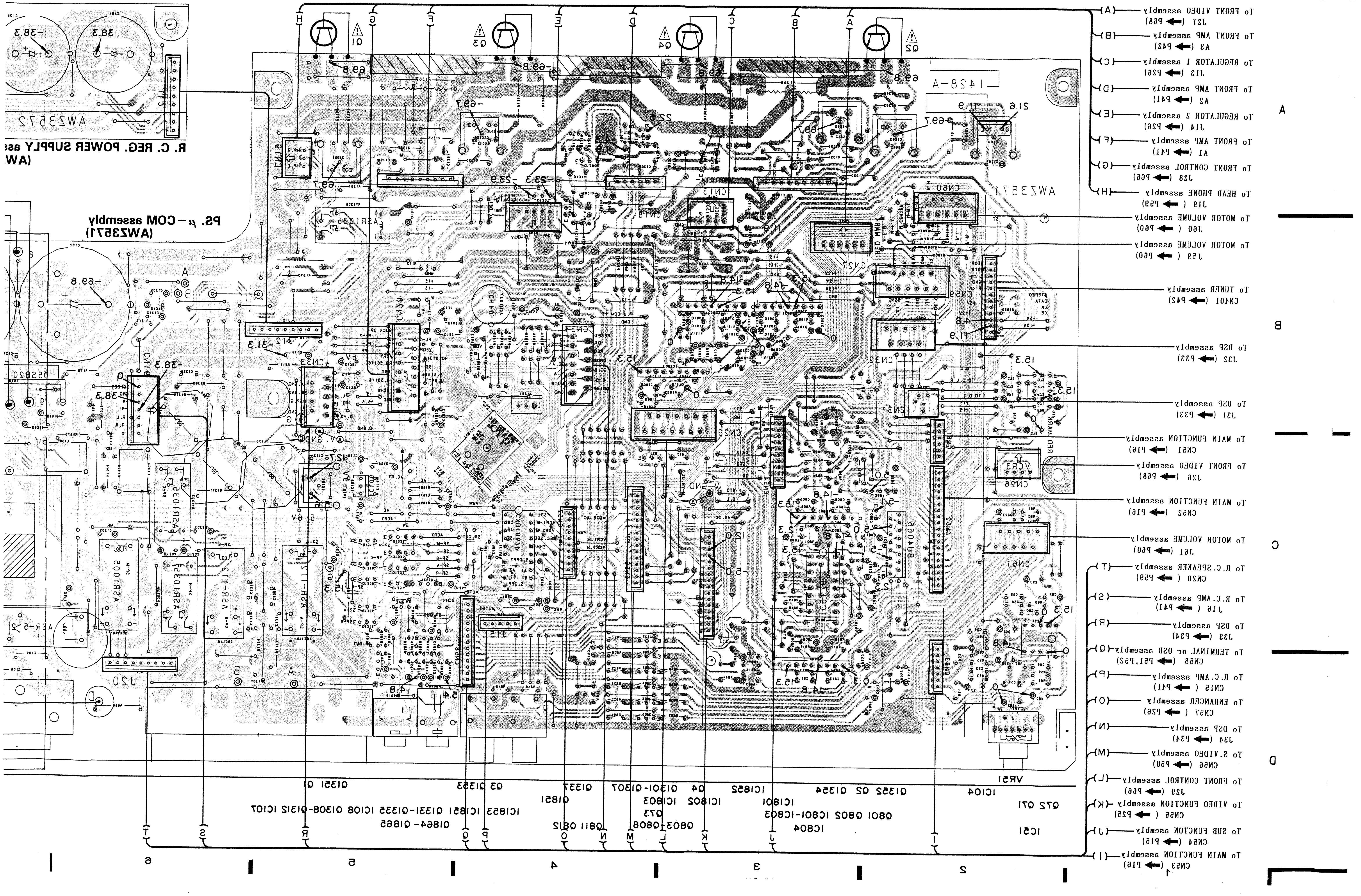

To DSP assembly
To J31 (➡ P35)
To J32 (➡ P37)
L R FL FR C RL RR
CN31 KPC3 CN32 KPE9
PS. μ-COM assembly (1/2) (AWZ3571)
To TERMINAL assembly
CN58 (➡ P55)
C SW RR RL C R.L R.R
PRE OUT
POWER IN
CN58
To MOTOR VOLUME assembly
CN60 (⬆ P56)
RR RL C FL FR
CN61 (⬆ P56)
FR FL RR RL C
CN59 (⬆ P56)
-15V +15V DATA CLOCK ST3 DC.DET LED DOWN UP +12V G
To FRONT VIDEO assembly
J27 (⬆ P69)
Y G COMP
J26 (⬆ P69)
L R
To TUNER assembly
CN401 (⬆ P38)
L R +5V +12V
STOP MUTE.T STEREO DATA.T CLOCK.T CE.T
Q803－Q808: PRE OUT MUTE
2SC2878
Q803 Q804 Q805 Q806 Q807
Q811
IC801, Q801, Q802: REAR MODE SWITCHING
IC803(1/2): +29dB AMP
M5220L
IC804: +6dB AMP
M5220L
IC802: REAR VOLUME
TC9176P
IC803(2/2) +29dB AMP
M5220L
Q71, Q72: BUFFER
2SC2458
Q71 Q72
D71 D72 1SS252
IC51: PHONO EQ AMP
IC51 M5220P
5.0
-5.1
2.3
0.3
15.3
-14.8
CN53 CN52 CN51 CN54
L R L R
R L R L R L R L R L
ST1 DATA CLOCK GND -15V +15V
+15V -15V GND CLOCK DATA ST2
VCR3 TUNER from DSP to DSP to M.VR
To CN53 (➡ P17)
To CN52 (➡ P18)
To CN51 (➡ P18)
To MAIN FUNCTION assembly
To SUB FUNCTON assembly CN54 (➡ P20)

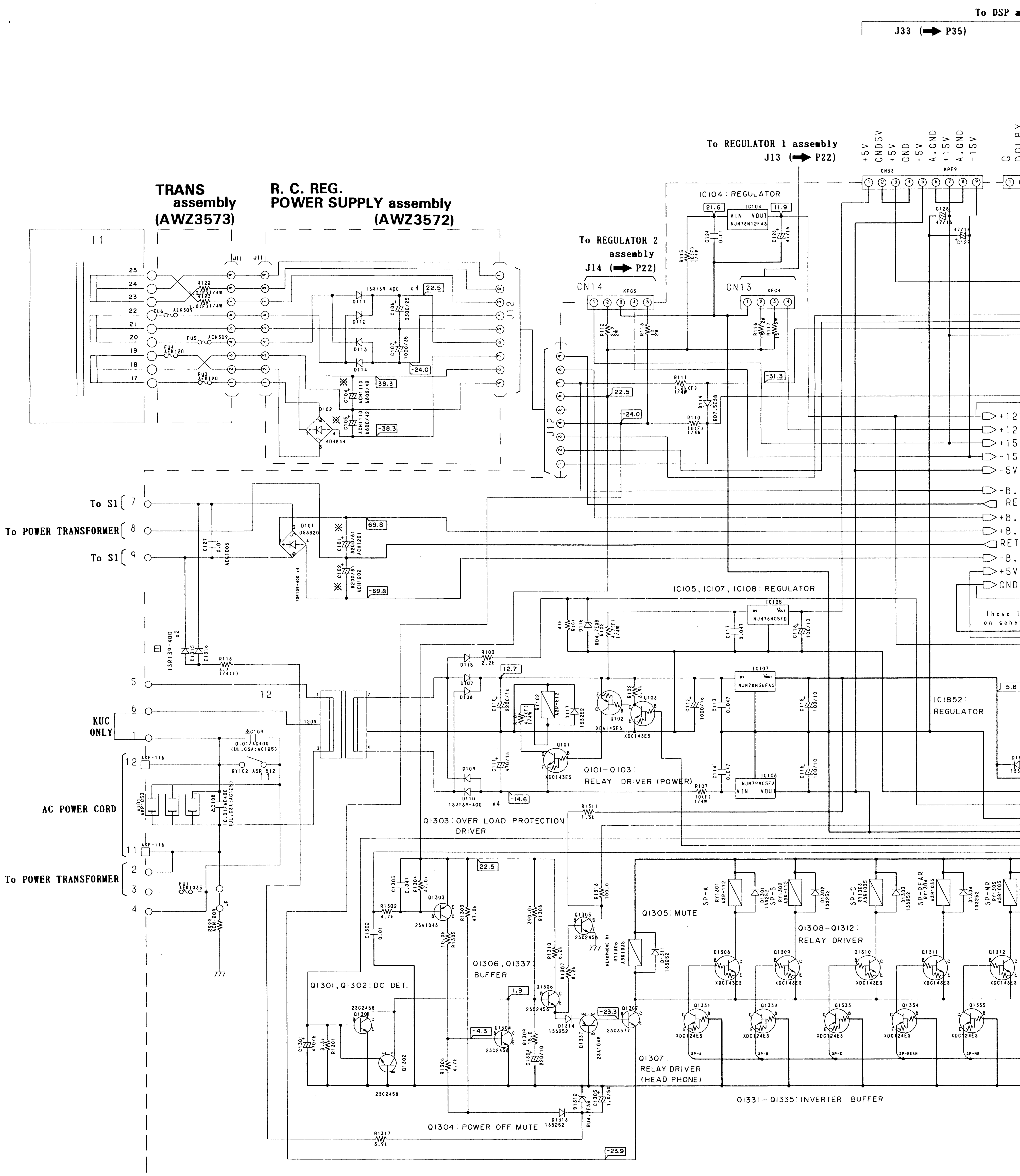

FRONT PRE OUT
POWER IN
R
L
AKB1141
To R.C.AMP assembly
CN15 (➡ P39)
CENTER
C
RL
C
RR
J15
CN16 (➡ P40)
DC.DET
C
REAR +B
REAR -B
RL
RR
C
CN16
KPC7
R845 470.0k
R846 470.0k
MUTE
2SC2878
Q805
Q806
Q807
Q808
R826 2.2k
R827 2.2k
XDA124ES
Q811
Q812
D807
D808
MUTE.AC
D805
D806
MUTE2 (Rear Out)
MUTE1 (Front,Center & Super W.Out)
Q811, Q812: BUFFER
+B.rear
R.RET
-B.rear
38.3
-38.3
C1
Von1
C2
Von2
Soff2
VCR1.MUTE
VCR2.MUTE
A1
B1
A2
B2
Soff1
REC.SEL
ENH
SPLIT
VIDEO_CONTROL(3:16)
MR
CLOCK
DATA
ST1
ST2
ST3
CONTROL(1:5)
(➡ P84,P85)
VR.DC.DET
UP
DOWN
LED
VR.CONTROL(1:3)
STOP
MUTE.T
STEREO
DATA.T
CLOCK.T
CE.T
TUNER_CONTROL(1:6)
OVER.LOAD
GND
-5V
+12V.v
+5V.t
+12V.t
+15V
-15V
-5.0
12.0
4.8
11.9
PWM
+B.front
RET.F
-B.front
GND(5V)
F.L.env
F.R.env
C.env
R.L.env
R.R.env
Q1351, Q1353:
PRE DRIVER FOR POWER AMP
69.7
-69.7
R1351 100(F) 1/4W
R1353 100(F) 1/4W
C1351 100p/500
C1353 100p/500
Q1351 2SC3298A
Q1353 2SA1306
R1359 4.7(F) 1/4W
R1361 4.7(F) 1/4W
R1363 4.7(F) 1/4W
R1365 4.7(F) 1/4W
C1350 CQMXA
0.01
R1355
R1357
R1367
ACN1057
Q1 2SC3281
Q3 2SA1302
Lch
To FRONT AMP assembly (➡ P40)
To FRONT AMP assembly (➡ P39)
AWH1014
AMP.OVER.ROAD
AMP.DC.DET
(➡ P84)
69.8
-69.8
Q1352, Q1354
PRE DRIVER FOR POWER AMP
R1352 100(F) 1/4W
R1354 100(F) 1/4W
C1352 100p/500
C1354 100p/500
Q1354 2SA1306
Q1352 2SC3298
R1364 4.7(F) 1/4W
R1366 4.7(F) 1/4W
R1362 4.7(F) 1/4W
R1360 4.7(F) 1/4W
R1356
R1358
R1368
ACN1057
Q4 2SA1302
Q2 2SC3281
Rch
NJM4558S-X
IC1801
IC1802
IC1803
R1801 100.0k
R1802 100.0k
R1811 100.0k
R1812 100.0k
R1821 100.0k
FL
FR
C
RL
R
D1801
D1802
D1803
D1804
D1805
D1806
D1807
D1808
D1809
D1810
D1811
D1812
D1813
D1814
D1815
R1803 1.5M
R1804 1.5M
R1805 1.0k
R1806 1.0k
R1807 39.0k
R1808 39.0k
R1813 1.5M
R1814 1.5M
R1815 1.0k
R1816 1.0k
R1817 39.0k
R1818 39.0k
R1822 1.5M
R1823 1.0k
R1824 39.0k
C1801 0.47/50
C1802 0.47/50
C1803 0.47/50
C1804 0.47/50
C1805 0.47/50
RD5.6ESB3
IC1801, IC1802: METER AMP
METER_AMP_IN(1:5)
R1370 330 2W
R1369 330 2W
RY1306
ASR1035
To HEAD PHONE assembly J19 (➡ P58)
CN19 KPC3
R1371 10 1W
L1301 ATH1004
C1309 0.1
C1311 0.1
R1373 10 1W
R1374 10 1W
C1310 0.1
C1312 0.1
L1302 ATH1004
R1372 10 1W
RY1301 ASR-1T2
RY1302 ASR-1T2
SP A
SP B
AKE1011
SP1301
L1303 ATH1011
R1375 10(F) 1/4W
R1377 10(F) 1/4W
C1355 0.1
C1356 0.1
R1376 10(F) 1/4W
R1378 10(F) 1/4W
L1304 ATH1011
L1305 ATH1004
R1379 10(F) 1/4W
R1380 10(F) 1/4W
C1358 0.1
RY1305 ASR1005
RY1304 ASR1035
RY1303 ASR1035
J20
MR.L
C
MR.R
C
C
RL
C
RR
To R.C.SPEAKER assembly CN20 (➡ P58)
CN55
VCR3
GND
B2
A2
B1
A1
C1
Von1
C2
Von2
-5V
12V
VGND
To VIDEO FUNCTION assembly CN55 (➡ P21)
CN56
C
VCR3
Y
REC.SEL
Soff1
B2
A2
B1
A1
VCR2.MUTE
VCR1.MUTE
Soff2
-5V
+12V
G
To S.VIDEO assembly CN56 (➡ P53)
CN57
ENH
REC.SEL
MR.V
VCR2.MUTE
VCR1.MUTE
SPLIT
PWM
-5V
+12V
C
To ENHANCER assembly CN57 (➡ P23)


1
2
3
4
5
6
A
B
C
D
To FRONT VIDEO assembly J27 (→ P68) A
To FRONT AMP assembly A3 (→ P42) B
To REGULATOR 1 assembly J13 (→ P26) C
To FRONT AMP assembly A2 (→ P41) D
To REGULATOR 2 assembly J14 (→ P26) E
To FRONT AMP assembly A1 (→ P41) F
To FRONT CONTROL assembly J28 (→ P66) G
To HEAD PHONE assembly J19 (→ P59) H
To MOTOR VOLUME assembly J60 (→ P60)
To MOTOR VOLUME assembly J59 (→ P60)
To TUNER assembly CN401 (→ P42)
To DSP assembly J32 (→ P33)
To DSP assembly J31 (→ P33)
To MAIN FUNCTION assembly CN51 (→ P16)
To FRONT VIDEO assembly J26 (→ P68)
To MAIN FUNCTION assembly CN52 (→ P16)
To MOTOR VOLUME assembly J61 (→ P60)
To R.C.SPEAKER assembly CN20 (→ P59) T
To R.C.AMP assembly J16 (→ P41) S
To DSP assembly J33 (→ P34) R
To TERMINAL or OSD assembly CN58 (→ P51,P52) Q
To R.C.AMP assembly CN15 (→ P41) P
To ENHANCER assembly CN57 (→ P26) O
To DSP assembly J34 (→ P34) N
To S.VIDEO assembly CN56 (→ P50) M
To FRONT CONTROL assembly J29 (→ P66) L
To VIDEO FUNCTION assembly CN55 (→ P25) K
To SUB FUNCTON assembly CN54 (→ P15) J
To MAIN FUNCTION assembly CN53 (→ P16) I
Q2
Q4
Q3
Q1
1428-A
AWZ3571
AWZ3572
R. C. REG. POWER SUPPLY ass
(AW
PS. μ-COM assembly
(AWZ3571)
CN60
CN27
CN59
CN32
CN31
CN51
CN26
VCR3
CN52
CN61
CN53
CN54
CN29
CN13
CN18
CN14
CN28
CN33
CN19
J15
J20
VR51
BU4066
ASR1035
ASR1005
V.GND
RED MARK
Q72 Q71
IC51
IC104
Q1352 Q2 Q1354
Q801 Q802 IC801-IC803
IC804
IC1801
IC1852
Q4
IC1802
Q1301-Q1307
IC1803
Q73
Q803-Q808
Q1337
Q811 Q812
Q1851
Q3 Q1353
IC1853 IC1851 Q1331-Q1335 IC108 Q1308-Q1312 IC107
Q1864-Q1865
Q1351 Q1
69.8
-69.8
-69.8
69.8
38.3
-38.3
-69.8
21.6
11.9
-69.7
69.7
22.5
-69.7
69.7
-23.3
-23.9
11.9
15.3
-14.8
4.8
11.9
15.3
-31.3
-38.3
38.3
5.0
-14.8
12.0
-5.0
12.75
5.6V
15.3
-14.8
0.3
-14.8
5.4
4.8


6
7
8
9
10
11
38.3
-38.3
22.5
-24.0
AWZ3572
C. REG. POWER SUPPLY assembly
(AWZ3572)
SPEAKER
INPEDANCE
SELECTOR
MODE 1
MODE 2
S1
T1
POWER TRANSFORMER
9
10
12
14
15
OM assembly
(AWZ3571)
-69.8
69.8
D5SB20
38.3
12.7
14.6
5V
AWZ3573
FU4
125V 6.3A
FU3
FU5
FU6
125V 2A
17
18
19
20
21
22
23
24
25
4
1
ASR1005
ASR-5
J20
FU1
125V 10A
TRANS assembly (AWZ3573)
AC POWER CORD
AC 120V/60Hz
FOR KUC TYPE
Q101-Q103
IC105
FOR SD TYPE
A
B
C
D
TRANS assembly (AWZ3573)
T1
POWER TRANSFORMER
PS. μ-COM assembly (AWZ3571)
7
6
5
4
3
2
1
VOLTAGE
SELECTOR
110-127V
220-240V
S2
120-
127V
110V
240V
220V
S4
LINE VOLTAGE
SELECTOR
FU5
AC POWER CORD
AC 110V/120-127V
/220V/240
50/60Hz
12


FOR SD TYPE
TRANS assembly (AWZ3573)
PS. μ-COM assembly (AWZ3571)
T1
POWER TRANSFORMER
VOLTAGE SELECTOR
110-127V
220-240V
S2
FU1
125V10A
120-127V
110V
220V
240V
LINE VOLTAGE SELECTOR
S4
FU5
AC POWER CORD
AC 110V/120-127V
/220V/240
50/60Hz
FOR KUC TYPE
AC POWER CORD
AC 120V/60Hz
SPEAKER IMPEDANCE SELECTOR
MODE1
MODE2
S1
REG. POWER SUPPLY assembly
(AWZ3572)
-38.3
38.3
22.5
-24.0
69.8
-69.8
12.7
-14.6
38.3
DS5B20
ASR-5
ASR1005
Q101-Q103
IC105
A
B
C
D
12
11
10
9
8
7
6


PS. μ-COM assembly
(AWZ3571)
R. C. REG. POWER SUPPLY ass
(AW
AWZ3571
AWZ3572
Q1
Q2
Q3
Q4
A To FRONT VIDEO assembly J27 (← P68)
B To FRONT AMP assembly A3 (← P42)
C To REGULATOR 1 assembly J13 (← P26)
D To FRONT AMP assembly A2 (← P41)
E To REGULATOR 2 assembly J14 (← P26)
F To FRONT AMP assembly A1 (← P41)
G To FRONT CONTROL assembly J28 (← P66)
H To HEAD PHONE assembly J19 (← P59)
To MOTOR VOLUME assembly J60 (← P60)
To MOTOR VOLUME assembly J59 (← P60)
To TUNER assembly CN401 (← P42)
To DSP assembly J32 (← P33)
To DSP assembly J31 (← P33)
To MAIN FUNCTION assembly CN51 (← P16)
To FRONT VIDEO assembly J26 (← P68)
To MAIN FUNCTION assembly CN52 (← P16)
To MOTOR VOLUME assembly J61 (← P60)
T To R.C.SPEAKER assembly CN20 (← P59)
S To R.C.AMP assembly J16 (← P41)
R To DSP assembly J33 (← P34)
Q To TERMINAL or OSD assembly CN58 (← P51,P52)
P To R.C.AMP assembly CN15 (← P41)
O To ENHANCER assembly CN57 (← P26)
N To DSP assembly J34 (← P34)
M To S.VIDEO assembly CN56 (← P50)
L To FRONT CONTROL assembly J29 (← P66)
K To VIDEO FUNCTION assembly CN55 (← P25)
J To SUB FUNCTION assembly CN54 (← P15)
I To MAIN FUNCTION assembly CN53 (← P16)
VR51
IC104
Q72 Q71
IC51
Q1352 Q2 Q1354
IC1801
Q801 Q802 IC1801-IC1803
IC804
IC1852
Q4 Q1301-Q1307
IC1802 IC1803
Q73
Q803-Q808
Q1337
Q1851
Q811 Q812
Q3 Q1353
Q1351 Q1
IC1853 IC1851 Q1331-Q1335 IC108 Q1308-Q1312 IC107
Q1864-Q1865
1
2
3
4
5
6
A
B
C
D


To DSP
J33 (➡ P35)
To REGULATOR 1 assembly
J13 (➡ P22)
To REGULATOR 2 assembly
J14 (➡ P22)
TRANS assembly (AWZ3573)
R. C. REG. POWER SUPPLY assembly (AWZ3572)
T1
IC104 : REGULATOR
CN14
CN13
J11
J12
To S1
To POWER TRANSFORMER
KUC ONLY
AC POWER CORD
To POWER TRANSFORMER
IC105, IC107, IC108 : REGULATOR
IC1852 : REGULATOR
Q101–Q103 : RELAY DRIVER (POWER)
Q1303 : OVER LOAD PROTECTION DRIVER
Q1301, Q1302 : DC DET.
Q1306, Q1337 : BUFFER
Q1305 : MUTE
Q1308–Q1312 : RELAY DRIVER
Q1307 : RELAY DRIVER (HEAD PHONE)
Q1331–Q1335 : INVERTER BUFFER
Q1304 : POWER OFF MUTE
SP-A
SP-B
SP-C
SP-REAR
SP-MR
+5V
GND5V
+5V
GND
-5V
A.GND
+15V
A.GND
-15V
+12
+12
+15
-15
-5V
-B.
RE
+B.
+B.
RET
-B.
+5V
GND
These
on sche
22.5
-24.0
38.3
-38.3
21.6
11.9
-31.3
69.8
-69.8
12.7
-14.6
22.5
1.9
-4.3
-23.3
-23.9
5.6

• LOGIC TABLE FOR VIDEO CONTROL SECTION

Input Selector Condition		IC1853 (CXD1067P) 1	2	3	4	5	6	7	8	9	11	12	13	IC1851 (PDG073A) 2	3	4	5
MAIN	VCR1	–	H	L	–	–	–	–	L	L	L	–	–	–	–	L	H
	VCR2	–	L	H	–	–	–	–	H	H	L	–	–	–	–	L	H
	VCR3	–	L	L	–	–	–	–	L	H	L	–	–	–	–	L	L
	LD	–	L	L	–	–	–	–	H	L	L	–	–	–	–	L	H
	TV	–	L	L	–	–	–	–	L	L	H	–	–	–	–	L	L
	VIDEO	–	L	L	–	–	–	–	H	L	H	–	–	–	–	L	L
	AUDIO (CD···etc)	–	L	L	–	–	–	–	–	–	H	–	–	–	–	H	–
SUB	VCR1	–	H	L	–	–	–	L	–	–	–	L	L	L	H	–	–
	VCR2	–	L	H	–	–	–	L	–	–	–	H	H	L	H	–	–
	VCR3	–	L	L	–	–	–	L	–	–	–	H	L	L	L	–	–
	LD	–	L	L	–	–	–	L	–	–	–	L	H	L	H	–	–
	TV	–	L	L	–	–	–	H	–	–	–	L	L	L	L	–	–
	VIDEO	–	L	L	–	–	–	H	–	–	–	L	H	L	L	–	–
	AUDIO (CD···etc)	–	L	L	–	–	–	H	–	–	–	–	–	H	–	–	–

Pins No.

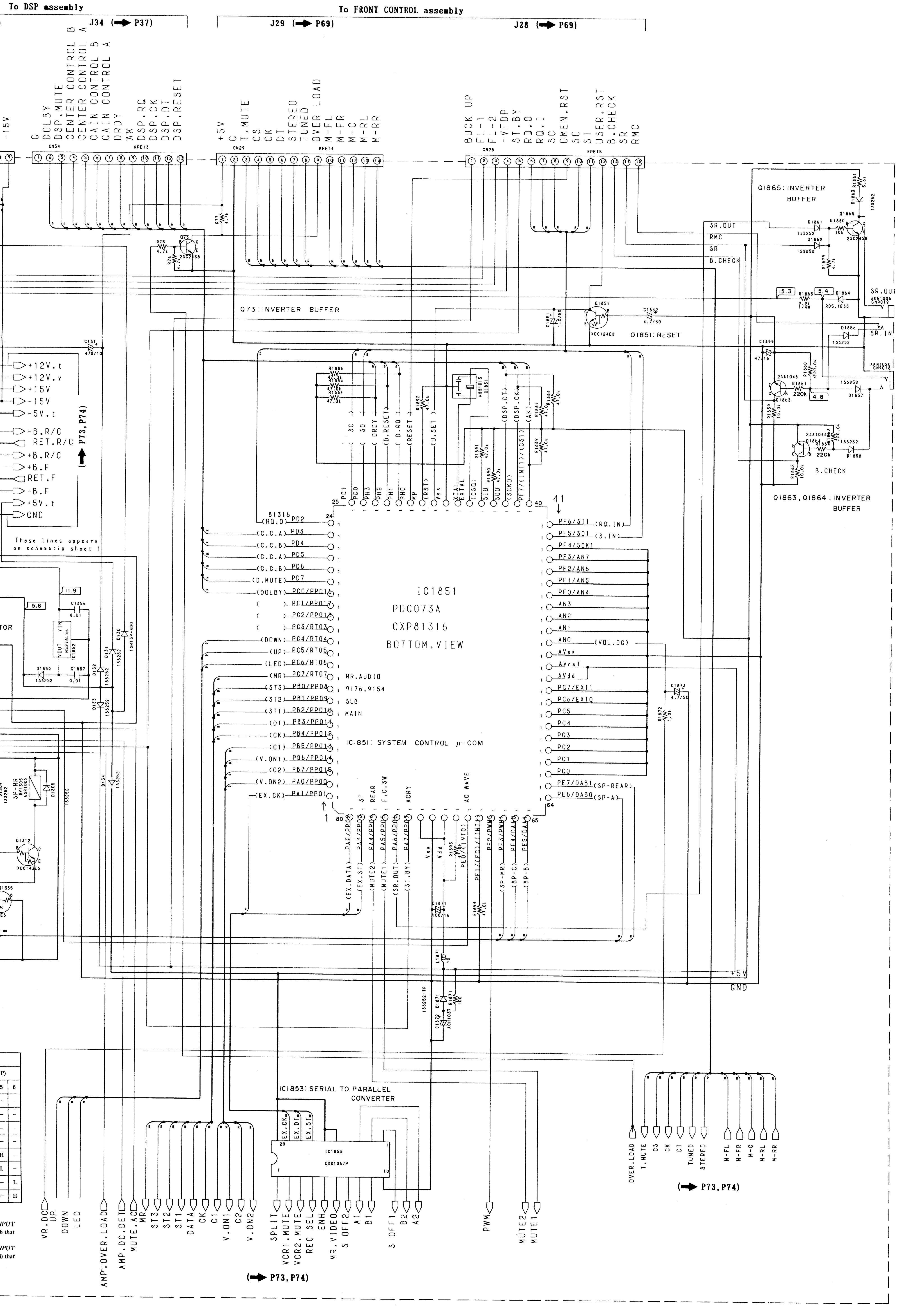
Switches Condition		IC1853 (CXD1067P) 1	2	3	4	5	6
SPLIT SCREEN	ON	H	–	–	–	–	–
	OFF	L	–	–	–	–	–
REC SEL	ON	–	*1		H	–	–
	OFF	–	*2		L	–	–
ENHANCER	ON	–	–	–	–	H	–
	OFF	–	–	–	–	L	–
MRS	ON	–	–	–	–	–	L
	OFF	–	–	–	–	–	H

Note)

**1 : Changes according to the status of the SUB INPUT SELECTOR. The status of H/L synchronizes with that of the SUB INPUT SELECTOR.*

**2 : Changes according to the status of the MAIN INPUT SELECTOR. The status of H/L synchronizes with that of the MAIN INPUT SELECTOR.*

PS. μ–COM assembly (2/2) (AWZ3571)


To DSP assembly
J34 (➡ P37)
To FRONT CONTROL assembly
J29 (➡ P69)
J28 (➡ P69)
-15V
G
DOLBY
DSP.MUTE
CENTER CONTROL B
CENTER CONTROL A
GAIN CONTROL B
GAIN CONTROL A
DRDY
AK
DSP.RQ
DSP.CK
DSP.DT
DSP.RESET
CN34
KPE13
+5V
G
T.MUTE
CS
CK
DT
STEREO
TUNED
OVER LOAD
M-FL
M-FR
M-C
M-RL
M-RR
CN29
KPE14
BUCK UP
FL-1
FL-2
-VFDP
ST.BY
RQ.0
RQ.1
SC
OMEN.RST
SO
SI
USER.RST
B.CHECK
SR
RMC
CN28
KPE15
Q73: INVERTER BUFFER
Q73 2SC2458
R75 4.7k
R76
R77 4.7k
C131 470/10
+12V.t
+12V.v
+15V
-15V
-5V.t
-B.R/C
RET.R/C
+B.R/C
+B.F
RET.F
-B.F
+5V.t
GND
(➡ P73, P74)
These lines appears on schematic sheet 1
11.9
5.6
C1856 0.01
IC1852 M5276L56
VIN VOUT
D1850 1SS252
C1857 0.01
D130 1SR139-400
D131 1SS252
D132
D133 1SS252
D134 1SS252
D135
Q1312 XDC143ES
Q1335
SP-MR RY1305 ASR1005
Q1851 XDC124ES
Q1851: RESET
C1851 1.0/50
C1852 4.7/50
Q1865: INVERTER BUFFER
SR.OUT
RMC
SR
B.CHECK
D1861 1SS252
D1862 1SS252
R1880 10k
R1879 4.7k
Q1865 2SC2458
D1863
R1881 5.6k
15.3
R1865
5.4
D1864 RD5.1ESB
SR.OUT AKN1006 CN9019
D1856 1SS252
SR.IN
AKN1020 CN9018
C1899 47/16
2SA1048
R1860 220.0k
R1861 220k
Q1863
4.8
1SS252
D1857
R1859 10.0k
2SA1048
Q1864
R1863
R1864 220k
1SS252
D1858
R1862 10.0k
B.CHECK
Q1863, Q1864: INVERTER BUFFER
R1886 47.0k
R1885 47.0k
R1884 47.0k
X1851 X3510IS
R1882 47.0k
R1887 47.0k
R1888 47.0k
R1889 47.0k
R1891 47.0k
R1890 47.0k
(SC) (SO) (DRDY) (D.RESET) (D.RQ) (RESET) (U.SET)
(DSP.DT) (DSP.CK) (AK)
PD1 PD0 PH3 PH2 PH1 PH0 MP (RST) Vss XTAL EXTAL (CSO) SIO SOO (SCKO) PF7/(INT1)/(CS1)
25 40 41
81316
(RQ.0) PD2 24
(C.C.A) PD3
(C.C.B) PD4
(C.C.A) PD5
(C.C.B) PD6
(D.MUTE) PD7
(DOLBY) PC0/PP016
PC1/PP017
PC2/PP018
PC3/RT03
(DOWN) PC4/RT04
(UP) PC5/RT05
(LED) PC6/RT06
(MR) PC7/RT07
(ST3) PB0/PP08
(ST2) PB1/PP09
(ST1) PB2/PP010
(DT) PB3/PP011
(CK) PB4/PP012
(C1) PB5/PP013
(V.ON1) PB6/PP014
(C2) PB7/PP015
(V.ON2) PA0/PP00
(EX.CK) PA1/PP01
1 80
IC1851
PDG073A
CXP81316
BOTTOM.VIEW
MR.AUDIO
9176, 9154
SUB
MAIN
IC1851: SYSTEM CONTROL µ-COM
PF6/SI1 (RQ.IN)
PF5/SO1 (S.IN)
PF4/SCK1
PF3/AN7
PF2/AN6
PF1/AN5
PF0/AN4
AN3
AN2
AN1
AN0 (VOL.DC)
AVss
AVref
AVdd
PC7/EX11
PC6/EX10
PC5
PC4
PC3
PC2
PC1
PC0
PE7/DAB1 (SP-REAR)
PE6/DAB0 (SP-A)
64 65
ST REAR F.C.SW ACRY AC WAVE
PA2/PP02 PA3/PP03 PA4/PP04 PA5/PP05 PA6/PP06 PA7/PP07
(EX.DATA) (EX.ST) (MUTE2) (MUTE1) (SR.OUT) (ST.BY)
Vss Vdd
R1893
PE0/(INT0)
PF1/(EC)/(INT1)
PE2/PWM
PE3/PWM
PE4/DA
PE5/DA
(SP-MR) (SP-C) (SP-B)
C1873 4.7/50
R1872 1.0k
C1871 100/16
R1894 47.0k
L1871
D1871 1SS252-TP
R1871 100
C1872 AEN1030
+5V
GND
IC1853: SERIAL TO PARALLEL CONVERTER
EX.CK EX.DT EX.ST
IC1853 CXD1067P
20 1 10
VR.DC
UP
DOWN
LED
AMP.OVER.LOAD
AMP.DC.DET
MUTE.AC
MR
ST3
ST2
ST1
DATA
CK
C1
V.ON1
C2
V.ON2
SPLIT
VCR1.MUTE
VCR2.MUTE
REC SEL
ENH
MR.VIDEO
S OFF2
A1
B1
S OFF1
B2
A2
(➡ P73, P74)
PWM
MUTE2
MUTE1
OVER.LOAD
T.MUTE
CS
CK
DT
TUNED
STEREO
M-FL
M-FR
M-C
M-RL
M-RR
(➡ P73, P74)
P)
5 6
H
L
L
H
NPUT
h that
NPUT
h that
A
B
C
D
E
F

4. PCB's PARTS LIST

NOTES:

- *Parts without part number cannot be supplied.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*
  Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).
  560Ω 56×10^1 561........................RD1/4PS5⃞6⃞1⃞J
  47kΩ 47×10^3 473........................RD1/4PS4⃞7⃞3⃞J
  0.5Ω 0R5..RN2H0⃞R⃞5⃞K
  1Ω 010..RS1P0⃞1⃞0⃞K
  Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).
  5.62kΩ 562×10^1 5621........................RN1/4SR5⃞6⃞2⃞1⃞F

◉ TUNER assembly (AWE1160)

SEMICONDUCTORS

Mark	No.	Description	Parts No.
	IC431	AM/FM IC	LA1265S
	IC451	MPX IC	AN7470P
	IC471	PLL IC	LM7001
	Q401	MOS−FET	2SK241
	Q402	TRANSISTOR	2SC2786
	Q403	TRANSISTOR	2SC2668
	Q405	N−FET	2SK161
	Q421	TRANSISTOR	2SC2668
	Q451	TRANSISTOR	2SC2603
	Q452, 453	TRANSISTOR	2SC1740S
	Q454	TRANSISTOR	2SA933S
	Q471	N−FET	2SK246
	Q472	TRANSISTOR	2SC1740SLN
	Q473, 474	TRANSISTOR	RN2201
	D401−403	VARI−CAP DIODE	1SV147
	D431−435	DIODE	1SS252

COILS & TRANSFORMERS

Mark	No.	Description	Parts No.
	F421	CERAMIC FILTER	ATF−107
	F422	CERAMIC FILTER	ATF−119
	F431	CERAMIC FILTER	ATF1042
	F461	FILTER	ATF−164
	L401	COIL	ATC1001
	L402	COIL	ATC1002
	L403	COIL	ATC1004
	L404	COIL	ATC1005
	L405	COIL	ATC1003
	L406, 407	AXIAL INDUCTOR	LAU2R2M
	T402	IF TRANSFORMER	ATE−063
	T431	IF TRANSFORMER	ATE1001
	T432	IF TRANSFORMER	ATE1002

CAPACITORS

Mark	No.	Description	Parts No.
	C401	CERAMIC CAPACITOR	CCDRH330J50
	C402	CERAMIC CAPACITOR	CCDRH390J50
	C403	CERAMIC CAPACITOR (0.01μF)	ACG1021
	C404, 405	CERAMIC CAPACITOR	CCDRH330J50
	C406	CERAMIC CAPACITOR	CCDCH020C50
	C409	CERAMIC CAPACITOR (100p)	ACG1017
	C410−412	CERAMIC CAPACITOR (0.01μF)	ACG1021
	C413	CERAMIC CAPACITOR	CCDCH150J50
	C414	CERAMIC CAPACITOR	CCDCH330J50
	C415	CERAMIC CAPACITOR	CCDCH080D50
	C416	CERAMIC CAPACITOR	CCDTH180J50
	C417	CERAMIC CAPACITOR	CCDCH010C50
	C418, 419	CERAMIC CAPACITOR (0.01μF)	ACG1021
	C420	ELECTR.CAPACITOR	CEAS100M50
	C421, 422	CERAMIC CAPACITOR (0.01μF)	ACG1021
	C433	ELECTR.CAPACITOR	CEAS4R7M50
	C435	CERAMIC CAPACITOR	CKCYF472Z50
	C436	CERAMIC CAPACITOR	CKCYX683M25
	C437	ELECTR.CAPACITOR	CEAS100M50
	C438	ELECTR.CAPACITOR	CEAS2R2M50
	C439, 440	CERAMIC CAPACITOR	CKCYF223Z50
	C441	CERAMIC CAPACITOR (0.022μF)	ACG1022
	C442	ELECTR.CAPACITOR	CEAS0R1M50
	C443	ELECTR.CAPACITOR	CEAS3R3M50
	C444	CERAMIC CAPACITOR (330p)	ACG1018
	C445	CERAMIC CAPACITOR (47p)	ACG1016
	C446, 447	MYLOR FILM CAPACITOR	CQMA561J50
	C451	ELECTR.CAPACITOR	CEAS101M16
	C452	ELÊCTR.CAPACITOR	CEANP4R7M35
	C453	CERAMIC CAPACITOR	CKCYF473Z50
	C454	CAPACITOR (470p)	ACE1039
	C455	ELECTR.CAPACITOR	CEAS3R3M50
	C456	ELECTROLYTIC CAPACIT	CEAS1R5M50
	C457	ELECTR.CAPACITOR	CEASR22M50
	C458	ELECTR.CAPACITOR	CEAS470M16
	C459, 460	MYLOR FILM CAPACITOR	CQMA102J50
	C461, 462	ELECTR.CAPACITOR	CEAS4R7M50
	C463, 464	ELECTR.CAPACITOR	CEAS470M16
	C465	CERAMIC CAPACITOR (0.01μF)	ACG1021
	C466	CERAMIC CAPACITOR	CCCSL121J50
	C471	CERAMIC CAPACITOR (0.01μF)	ACG1021
	C472	CERAMIC CAPACITOR (0.022μF)	ACG1022
	C473	CERAMIC CAPACITOR (0.01μF)	ACG1021
	C475	ELECTR.CAPACITOR	CEAS100M50
	C476	CERAMIC CAPACITOR (0.01μF)	ACG1021
	C477	CERAMIC CAPACITOR	CKCYF103Z50
	C478	AUDIO FILM CAPACITOR	CFTXA224J50
	C479	CERAMIC CAPACITOR (22p)	ACG1025
	C480	CERAMIC CAPACITOR (0.01μF)	ACG1021
	C481, 482	CERAMIC CAPACITOR	CCDCH150J50
	C483	CERAMIC CAPACITOR (100p)	ACG1017
	C484	ELECTR.CAPACITOR	CEAS470M16
	C485	CERAMIC CAPACITOR (0.01μF)	ACG1021

RESISTORS

Mark	No.	Description	Parts No.
	VR431	VR (10K)	ACP1025
	VR432	VR	VRTS6VS153
	VR451	VR (4.7K)	ACP1024
		Other resistors	RD1/8PM□□□J

OTHERS

Mark	No.	Description	Parts No.
		ANTENNA TERMINAL 4−P	AKA1014
		AM RF TUNING BLOCK	AXX1011
	X431	CERAMIC RESONATOR	ATF1027
	X471	CRYSTAL RESONATOR	ASS1005

◉ PS. μ−COM assembly (AWZ3571)

SEMICONDUCTORS

Mark	No.	Description	Parts No.
	IC104	REGULATOR IC	NJM78M12FAS
	IC105	REGULATOR IC	NJM78M05FD
	IC107	REGULATOR IC	NJM78M56FAS
	IC108	REGULATOR IC	NJM79M05FA
	IC1801−1803	OP−AMP IC	NJM4558S−X
	IC1851	CONTROL MCU	PDG073A
	IC1852	REGULATOR IC	M5278L56 (A)
	IC1853	PORT−EXPANDER IC	CXD1067P
	IC51	OP−AMP−IC	M5220P
	IC801	LOGIC IC	BU4066BL
	IC802	E−VR IC	TC9176P
	IC803, 804	OP−AMP IC	M5220L
	Q101	TRANSISTOR	XDC143ES
	Q102	TRANSISTOR	XDA143ES
	Q103	TRANSISTOR	XDC143ES
	Q1301, 1302	TRANSISTOR	2SC2458
	Q1303	TRANSISTOR	2SA1048
	Q1304−1306	TRANSISTOR	2SC2458
	Q1307	TRANSISTOR	2SC3377
	Q1308−1312	TRANSISTOR	XDC143ES
	Q1331−1335	TRANSISTOR	XDA143ES
	Q1337	TRANSISTOR	2SA1048
	Q1351, 1352	TRANSISTOR	2SC3298
	Q1353, 1354	TRANSISTOR	2SA1306
	Q1851	TRANSISTOR	XDC124ES
	Q1863, 1864	TRANSISTOR	2SA1048
	Q1865	TRANSISTOR	2SC2458
	Q71−73	TRANSISTOR	2SC2458
	Q801	TRANSISTOR	XDA124ES
	Q802	TRANSISTOR	XDC124ES
	Q803−808	TRANSISTOR	2SC3327
	Q811, 812	TRANSISTOR	XDA124ES
	D101	DIODE	D5SB20
	D107−110	DIODE	1SR139−400
	D115	DIODE	1SS252
	D116	ZENER DIODE	RD4.7ESB
	D117	DIODE	1SS252
	D119	ZENER DIODE	RD7.5ESB
	D1301−1305	DIODE	1SS252
	D131, 1311	DIODE	1SS252
	D1312	ZENER DIODE	RD4.7ESB
	D1313, 1314	DIODE	1SS252
	D1315, 1316	DIODE	1SR139−400
	D132, 133	DIODE	1SR139−400
	D134	DIODE	1SS252
	D1801−1810	DIODE	1SS252
	D1811−1815	ZENER DIODE	RD5.6ESB3

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erefore, when

shown by J =

	Parts No.
ITOR	CCDRH330J50
ITOR	CCDRH390J50
ITOR	ACG1021
ITOR	CCDRH330J50
ITOR	CCDCH020C50
ITOR	ACG1017
ITOR	ACG1021
ITOR	CCDCH150J50
ITOR	CCDCH330J50
ITOR	CCDCH080D50
ITOR	CCDTH180J50
ITOR	CCDCH010C50
ITOR	ACG1021
TOR	CEAS100M50
ITOR	ACG1021
TOR	CEAS4R7M50
ITOR	CKCYF472Z50
ITOR	CKCYX683M25
TOR	CEAS100M50
TOR	CEAS2R2M50
ITOR	CKCYF223Z50
ITOR	ACG1022
TOR	CEAS0R1M50
TOR	CEAS3R3M50
ITOR	ACG1018
ITOR	ACG1016

Mark	No.	Description	Parts No.
	C446, 447	MYLOR FILM CAPACITOR	CQMA561J50
	C451	ELECTR.CAPACITOR	CEAS101M16
	C452	ELÊCTR.CAPACITOR	CEANP4R7M35
	C453	CERAMIC CAPACITOR	CKCYF473Z50
	C454	CAPACITOR (470p)	ACE1039
	C455	ELECTR.CAPACITOR	CEAS3R3M50
	C456	ELECTROLYTIC CAPACIT	CEAS1R5M50
	C457	ELECTR.CAPACITOR	CEASR22M50
	C458	ELECTR.CAPACITOR	CEAS470M16
	C459, 460	MYLOR FILM CAPACITOR	CQMA102J50
	C461, 462	ELECTR.CAPACITOR	CEAS4R7M50
	C463, 464	ELECTR.CAPACITOR	CEAS470M16
	C465	CERAMIC CAPACITOR (0.01μF)	ACG1021
	C466	CERAMIC CAPACITOR	CCCSL121J50
	C471	CERAMIC CAPACITOR (0.01μF)	ACG1021
	C472	CERAMIC CAPACITOR (0.022μF)	ACG1022
	C473	CERAMIC CAPACITOR (0.01μF)	ACG1021
	C475	ELECTR.CAPACITOR	CEAS100M50
	C476	CERAMIC CAPACITOR (0.01μF)	ACG1021
	C477	CERAMIC CAPACITOR	CKCYF103Z50
	C478	AUDIO FILM CAPACITOR	CFTXA224J50
	C479	CERAMIC CAPACITOR (22p)	ACG1025
	C480	CERAMIC CAPACITOR (0.01μF)	ACG1021
	C481, 482	CERAMIC CAPACITOR	CCDCH150J50
	C483	CERAMIC CAPACITOR (100p)	ACG1017
	C484	ELECTR.CAPACITOR	CEAS470M16
	C485	CERAMIC CAPACITOR (0.01μF)	ACG1021

RESISTORS

Mark	No.	Description	Parts No.
	VR431	VR (10K)	ACP1025
	VR432	VR	VRTS6VS153
	VR451	VR (4.7K)	ACP1024
		Other resistors	RD1/8PM□□□J

OTHERS

Mark	No.	Description	Parts No.
		ANTENNA TERMINAL 4−P	AKA1014
		AM RF TUNING BLOCK	AXX1011
	X431	CERAMIC RESONATOR	ATF1027
	X471	CRYSTAL RESONATOR	ASS1005

◉ PS. μ−COM assembly (AWZ3571)

SEMICONDUCTORS

Mark	No.	Description	Parts No.
	IC104	REGULATOR IC	NJM78M12FAS
	IC105	REGULATOR IC	NJM78M05FD
	IC107	REGULATOR IC	NJM78M56FAS
	IC108	REGULATOR IC	NJM79M05FA
	IC1801−1803	OP−AMP IC	NJM4558S−X
	IC1851	CONTROL MCU	PDG073A
	IC1852	REGULATOR IC	M5278L56 (A)
	IC1853	PORT−EXPANDER IC	CXD1067P
	IC51	OP−AMP−IC	M5220P
	IC801	LOGIC IC	BU4066BL
	IC802	E−VR IC	TC9176P
	IC803, 804	OP−AMP IC	M5220L
	Q101	TRANSISTOR	XDC143ES
	Q102	TRANSISTOR	XDA143ES
	Q103	TRANSISTOR	XDC143ES
	Q1301, 1302	TRANSISTOR	2SC2458
	Q1303	TRANSISTOR	2SA1048
	Q1304−1306	TRANSISTOR	2SC2458
	Q1307	TRANSISTOR	2SC3377
	Q1308−1312	TRANSISTOR	XDC143ES
	Q1331−1335	TRANSISTOR	XDA143ES
	Q1337	TRANSISTOR	2SA1048
	Q1351, 1352	TRANSISTOR	2SC3298
	Q1353, 1354	TRANSISTOR	2SA1306
	Q1851	TRANSISTOR	XDC124ES
	Q1863, 1864	TRANSISTOR	2SA1048
	Q1865	TRANSISTOR	2SC2458
	Q71−73	TRANSISTOR	2SC2458
	Q801	TRANSISTOR	XDA124ES
	Q802	TRANSISTOR	XDC124ES
	Q803−808	TRANSISTOR	2SC3327
	Q811, 812	TRANSISTOR	XDA124ES
	D101	DIODE	D5SB20
	D107−110	DIODE	1SR139−400
	D115	DIODE	1SS252
	D116	ZENER DIODE	RD4.7ESB
	D117	DIODE	1SS252
	D119	ZENER DIODE	RD7.5ESB
	D1301−1305	DIODE	1SS252
	D131, 1311	DIODE	1SS252
	D1312	ZENER DIODE	RD4.7ESB
	D1313, 1314	DIODE	1SS252
	D1315, 1316	DIODE	1SR139−400
	D132, 133	DIODE	1SR139−400
	D134	DIODE	1SS252
	D1801−1810	DIODE	1SS252
	D1811−1815	ZENER DIODE	RD5.6ESB3
	D1850	DIODE	1SS252
	D1856−1858	DIODE	1SS252
	D1861−1863	DIODE	1SS252
	D1864	ZENER DIODE	RD5.1ESB2
	D1871	DIODE	1SR139−400
	D71, 72	DIODE	1SS252
	D801	ZENER DIODE	RD5.1ESB
	D802	ZENER DIODE	RD5.1ESB1
	D804, 805	DIODE	1SS252
	D807−809	DIODE	1SS252

RELAIES

Mark	No.	Description	Parts No.
	RY102	RELAY	ASR−512
	RY1301, 1302	RELAY	ASR−112
	RY1303, 1304	RELAY	ASR1035
	RY1305	RELAY	ASR1005
	RY1306	RELAY	ASR1035

COILS & TRANSFORMER

Mark	No.	Description	Parts No.
	L1301, 1302	COIL	ATH1004
	L1303, 1304	COIL	ATH1011
	L1305	COIL	ATH1004
	L1871	AXIAL INDUCTOR	LAU100K
	T101	POWER TRANSFORMER	ATT1121

CAPACITORS

Mark	No.	Description	Parts No.
	C101	CAPACITOR (8200/81)	ACH1201
	C102	CAPACITOR (8200/81)	ACH1202
	C108, 109	CKA (0.01/AC400V)	ACG1003
	C110	ELECTR.CAPACITOR	CEAS222M16
	C111	ELECTR.CAPACITOR	CEAS471M16
	C112	ELECTR.CAPACITOR	CEAS102M16
	C113, 114	CERAMIC CAPACITOR	CKCYF473Z50
	C115, 116	ELECTR.CAPACITOR	CEAS101M10
	C117	CERAMIC CAPACITOR	CKCYF473Z50
	C118	ELECTR.CAPACITOR	CEAS101M10
	C124	CERAMIC CAPACITOR	CKCYF103Z50
	C126	ELECTR.CAPACITOR	CEAS470M16
	C127	CKA (0.01/AC250V)	ACG1005
	C128, 129	ELECTR.CAPACITOR	CEAS470M16
	C1301	ELECTROLYTIC CAPACIT	CEAS471M6
	C1302	CERAMIC CAPACITOR	CKCYF103Z50
	C1303	CERAMIC CAPACITOR	CKCYF473Z50
	C1304	ELECTR.CAPACITOR	CEAS221M10
	C1305	ELECTR.CAPACITOR	CEAS010M50
	C1309	AUDIO FILM CAPACITOR	CFTXA104J50
	C131	ELECTR.CAPACITOR	CEAS471M10
	C1310−1312	AUDIO FILM CAPACITOR	CFTXA104J50
	C1351−1354	CERAMIC CAPACITOR	CCDSL101K500
	C1355, 1356	AUDIO FILM CAPACITOR	CFTXA104J50
	C1358	AUDIO FILM CAPACITOR	CFTXA104J50
	C1360, 1361	POLYESTER CAPACITOR	CQMXA103J100
	C1801−1805	ELECTR.CAPACITOR	CEASR47M50
	C1851	ELECTR.CAPACITOR	CEAS0R1M50
	C1852	ELECTR.CAPACITOR	CEAS4R7M50
	C1856, 1857	CERAMIC CAPACITOR	CKCYF103Z50
	C1871	ELECTR.CAPACITOR	CEAS101M10
	C1872	CEA (47000/5.5V)	ACH1037
	C1873	ELECTR.CAPACITOR	CEAS4R7M50
	C1899	ELECTR.CAPACITOR	CEAS470M16
	C51, 52	ELECTR.CAPACITOR	CEAS100M25
	C53, 54	CERAMIC CAPACITOR	CKCYB331K50
	C55, 56	ELECTROLYTIC CAPACIT	CEAS471M6
	C57, 58	AUDIO FILM CAPACITOR	CFTXA243J50
	C59, 60	AUDIO FILM CAPACITOR	CFTXA823J50
	C61, 62	ELECTR.CAPACITOR	CEAS2R2M50
	C63, 64	ELECTR.CAPACITOR	CEAS101M16
	C71, 72	ELECTR.CAPACITOR	CEAS2R2M50
	C73	ELECTR.CAPACITOR	CEAS101M10
	C801, 802	ELECTR.CAPACITOR	CEAS4R7M50
	C805, 806	CERAMIC CAPACITOR	CCCSL470J50
	C807−810	ELECTR.CAPACITOR	CEAS4R7M50
	C811, 812	CERAMIC CAPACITOR	CKCYB331K50
	C813, 814	ELECTR.CAPACITOR	CEAS4R7M50
	C815, 816	ELECTR.CAPACITOR	CEAS470M16
	C817−820	ELECTR.CAPACITOR	CEAS4R7M50

RESISTORS

Mark	No.	Description	Parts No.
	VR51	VR	ACS1060
	R101, 105	CARBON FILM RESISTOR	RD1/4PMF4R7J
	R107, 110	CARBON FILM RESISTOR	RD1/4PMF100J
	R111	CARBON FILM RESISTOR	RD1/4PMF122J
	R112	METAL OXIDE RESISTOR	RS2LMF2R2J
	R113	METAL OXIDE RESISTOR	RS2LMF100J
	R115	CARBON FILM RESISTOR	RD1/4PMF100J
	R116, 117	METAL OXIDE RESISTOR	RS2LMF150J
	R118	FUSIBLE RESISTOR	RFA1/4PS4R7J
	R1351−1354	CARBON FILM RESISTOR	RD1/4PMF101J
	R1355−1358	CARBON FILM RESISTOR	RD1/4PMF470J
	R1359, 1360	FUSIBLE RESISTOR	RFA1/4PS4R7J
	R1361−1364	CARBON FILM RESISTOR	RD1/4PMF4R7J
	R1365, 1366	FUSIBLE RESISTOR	RFA1/4PS4R7J
	R1367, 1368	RESISTOR (0.33, 5W)	ACN1087

Mark	No.	Description	Parts No.
	R1369,. 1370	METAL OXIDE RESISTOR	RS2LMF331J
	R1371−1374	METAL OXIDE RESISTOR	RS1LMF100J
	R1375−1380	CARBON FILM RESISTOR	RD1/4PMF100J
	R1865	CARBON FILM RESISTOR	RD1/4PM222J
	R819, 820	CARBON FILM RESISTOR	RD1/4PMF102J
	R999	RESISTOR (2.2M, 1/2W)	ACN−209
		Other resistors	RD1/8PM□□□J

OTHERS

Mark	No.	Description	Parts No.
		TERMINAL 4P	AKB1141
		SPEAKER TERMINAL 8P	AKE1011
		JACK (CONTROL)	AKN1006
		JACK (REMOTE)	AKN1020
		AC OUTLET (3P)	AKP1053
	CN13	CONNECTOR (4P)	KPC4
	CN16	CONNECTOR (7P)	KPC7
	CN26	CONNECTOR (4P)	KPC4
	CN27	JUMPER CONNECTOR	KPC6
	CN28	CONNECTOR (15P)	KPE15
	CN29	CONNECTOR (14P)	KPE14
	CN31	CONNECTOR (3P)	KPE3
	CN32, 33	CONNECTOR (9P)	KPE9
	CN34	CONNECTOR (13P)	KPE13
	CN59	CONNECTOR (11P)	KPE11
	CN60	CONNECTOR (9P)	KPE9
	CN61	CONNECTOR (10P)	KPE10
	X1851	CRYSTAL RESONATOR	ASS1015
		FRONT AMP ASSEMBLY	AWH1014

◉ FRONT AMP assembly (AWH1014)

The FRONT AMP assembly (AWH1014) is a part of PS. μ−COM assembly (AWZ3571).

SEMICONDUCTORS

Mark	No.	Description	Parts No.
	IC601, 602	AUDIO IC	PA0045
	Q603, 604	TRANSISTOR	2SC2240
	Q605, 606	TRANSISTOR	2SA970
	Q607, 608	TRANSISTOR	2SA1145
	Q609, 610	TRANSISTOR	2SC2705
	Q621−624	TRANSISTOR	2SA992
	Q661, 662	TRANSISTOR	2SC2240
	D601−612	DIODE	1SS252
	D661−666	DIODE	1SS252
	D670−673	ZENER DIODE	RD12ESB

CAPACITORS

Mark	No.	Description	Parts No.
	C601, 602	CERAMIC CAPACITOR	CCCSL221J50
	C603, 604	ELECTR.CAPACITOR	CEAS2R2M50
	C605, 606	CERAMIC CAPACITOR	CKCYB331K50
	C607, 608	ELECTROLYTIC CAPACIT	CEXA471M16
	C609, 610	MICA CAPACITOR	CMA150J500
	C611, 612	CERAMIC CAPACITOR	CCCSL020C500
	C613, 614	CERAMIC CAPACITOR	CCCSL680J50
	C615, 616	CERAMIC CAPACITOR	CCCSL151J50
	C617, 618	CERAMIC CAPACITOR	CCCSL680J50
	C625−628	CERAMIC CAPACITOR (0.047/150)	ACG−009
	C661, 662	ELECTROLYTIC CAPACIT	CEANP010M100

RESISTORS

Mark	No.	Description	Parts No.
	R601−604	CARBON FILM RESISTOR	RD1/4PM□□□J
	R605, 606	CARBON FILM RESISTOR	RDR1/4PM223J
	R607−612	CARBON FILM RESISTOR	RD1/4PM□□□J
	R613−616	FUSIBLE RESISTOR	RFA1/4PS101J
	R617, 618	CARBON FILM RESISTOR	RDR1/4PM751J
	R619, 620	CARBON FILM RESISTOR	RDR1/2PM223J
	R621, 622	FUSIBLE RESISTOR	RFA1/4PS121J
	R623, 624	CARBON FILM RESISTOR	RD1/4PM104J
	R625, 625	FUSIBLE RESISTOR	RFA1/4PS470J
	R637−640	CARBON FILM RESISTOR	RD1/4PMF470J
	R661−664	CARBON FILM RESISTOR	RD1/4PMF222J
		Other resistors	RD1/8PM□□□J

◉ R.C.REG. POWER SUPPLY assembly (AWZ3572)

SEMICONDUCTORS

Mark	No.	Description	Parts No.
	D102	DIODE	4D4B44
	D111−114	DIODE	1SR139−400

CAPACITORS

Mark	No.	Description	Parts No.
	C104, 105	ELECTROLYTIC CAPACIT (6800/42)	ACH1110
	C106	ELECTR.CAPACITOR	CEAS332M25
	C107	ELECTROLYTIC CAPACIT	CEAS102M35

◉ TRANS assembly (AWZ3573)

RESISTORS

Mark	No.	Description	Parts No.
	R122, 123	CARBON FILM RESISTOR	RD1/4PMF010J

FRONT VIDEO assembly

CAPACITORS

Mark	No.	Description	Parts No.
	C1991, 1992	CERAMIC CAPACITOR	CKCYX473M25

RESISTORS

Mark	No.	Description	Parts No.
		All resistors	RD1/8PM□□□J

OTHERS

Mark	No.	Description	Parts No.
		PIN JACK 1P (VCR 3)	AKB1082
		SOCKET (S VIDEO)	AKP1067

◉ R.C.SPEAKER assembly (AWZ3566)

OTHERS

Mark	No.	Description	Parts No.
		SPEAKER TERMINAL 2−P	AKE−058
		SPEAKER TERMINAL 4−P	AKE1007
	CN20	CONNECTOR (9P)	KPC9

◉ MOTOR VOLUME assembly (AWZ3567)

SEMICONDUCTORS

Mark	No.	Description	Parts No.
	IC501	OP−AMP IC	M5220L
	IC502	E−VR IC	TC9154AP
	IC503	OP−AMP IC	M5220L
	IC505	MECHANISM DRIVER IC	TA7291S
	Q501	TRANSISTOR	XDC124ES
	D502	DIODE	1SS252
	D503, 504	ZENER DIODE	RD4.7ESB
	D551, 552	ZENER DIODE	RD5.1ESB

COILS

Mark	No.	Description	Parts No.
	L541, 542	AXIAL INDUCTOR	LAU560K

CAPACITORS

Mark	No.	Description	Parts No.
	C501, 502	ELECTR.CAPACITOR	CEAS100M50
	C503, 504	CERAMIC CAPACITOR	CCCSL560J50
	C507, 508	ELECTR.CAPACITOR	CEAS4R7M50
	C510	CERAMIC CAPACITOR	CCCSL560J50
	C511, 512	ELECTR.CAPACITOR	CEAS4R7M50
	C513	CERAMIC CAPACITOR	CCCSL221J50
	C541	ELECTR.CAPACITOR	CEAS100M50
	C542, 543	CERAMIC CAPACITOR	CKCYF473Z50
	C544	ELECTR.CAPACITOR	CEAS221M16
	C551, 552	ELECTR.CAPACITOR	CEAS470M16
	C560	ELECTR.CAPACITOR	CEAS010M50

RESISTORS

Mark	No.	Description	Parts No.
	VR501	VR	ACX1056
	R552, 559	CARBON FILM RESISTOR	RD1/4PM821J
		Other resistors	RD1/8PM□□□J

◉ FRONT CONTROL assembly (AWZ3569)

SEMICONDUCTORS

Mark	No.	Description	Parts No.
	IC1901	SYSTEM CONTROL MCU	PDG072A
	Q1901−1918	TRANSISTOR	XDC143ES
	Q1919	TRANSISTOR	XDC124ES
	Q1920	TRANSISTOR	XDC143ES
	Q1931, 1932	TRANSISTOR	2SC2458
	D1901−1911	DIODE	1SS252
	D1912, 1913	LED	AEL1113
	D1914−1918	LED	AEL1100
	D1919	LED (RED)	AEL1108
	D1921−1924	DIODE	1SS252
	D1931	DIODE	1SS252

SWITCHES

Mark	No.	Description	Parts No.
	S1901−1966	SWITCH	ASG1034
	S1970	ROTARY ENCODER	ASX1008

COIL

Mark	No.	Description	Parts No.
	L1901	AXIAL INDUCTOR	LAU100K

CAPACITORS

Mark	No.	Description	Parts No.
	C1901	ELECTR.CAPACITOR	CEJA220M10
	C1902	AXIAL CERAMIC CAPACITOR	CKPUYF103Z25
	C1903	ELECTR.CAPACITOR	CEAS010M50

RESISTORS

Mark	No.	Description	Parts No.
	R1920−1926	CARBON FILM RESISTOR	RD1/4PM151J
	R1927	CARBON FILM RESISTOR	RD1/4PM271J
		Other resistors	RD1/8PM□□□J

OTHERS

Mark	No.	Description	Parts No.
		FL SPACER	AEB1120
		REMOTE RECEIVER UNIT	AXX1010

Mark	No.	Description	Parts No.
	CN1901	CONNECTOR (4P)	KPC4
	V1901	FL TUBE	AAV1123
	X1901	CERAMIC OSCILLATOR	ASS1022

◉ DSP assembly (AWZ3570)

SEMICONDUCTORS

Mark	No.	Description	Parts No.
	IC1101	OP−AMP IC	RC4558DXP
	IC1102	OP AMP	M5238PF
	IC1103	A/D CONVERTER	LC7886
	IC1104	DSP IC	LC83010NPD
	IC1105, 1106	MEMORY IC	MS51464−12Z
	IC1107−1109	IC DIGITAL FILTER	PD0060
	IC1110	D/A CONVERTER	LC78820−B
	IC1111	IC	NJM072D−E
	IC1112	OP−AMP IC	RC4558DXP
	IC1113	IC	PCM56P
	IC1114	IC	RC4558DXP
	IC1115	D/A CONVERTER	UPD6376CX
	IC1116	IC	RC4558DXP
	IC1117	OP−AMP IC	RC4558DXP
	IC1118	LOGIC IC	TC4052BP
	IC1119	OP−AMP IC	RC4558DXP
	IC1120	LOGIC IC	TC4066BP
	IC1121, 1122	OP−AMP IC	RC4558DXP
	IC1123	LOGIC IC	TC4066BP
	IC1124	DOLBY−B IC	LA2730
	IC1125	OP−AMP IC	RC4558DXP
	Q1131	TRANSISTOR	2SC2458
	Q1181	TRANSISTOR	XDA124ES
	Q1182	TRANSISTOR	2SA1048
	Q1183	TRANSISTOR	XDC124ES
	Q1184	TRANSISTOR	2SA1048
	Q1185	TRANSISTOR	2SC3327
	Q1186	TRANSISTOR	XDA124ES
	Q1201	TRANSISTOR	XDC143ES
	Q1202, 1203	N−FET	2SK373
	Q1251	TRANSISTOR	XDA124ES
	Q1252	TRANSISTOR	XDC124ES
	Q1253, 1254	TRANSISTOR	2SC3327
	D1101−1105	DIODE	1SS252
	D1111−1114	DIODE	1SS252
	D1201, 1202	DIODE	1SS252

COILS

Mark	No.	Description	Parts No.
	F1101, 1102	FILTER	ATF1071
	F1103, 1104	FILTER	ATF1106
	F1105	FILTER	ATF1102
	F1106	FILTER	ATF1106
	L1103, 1104	FERRITE BEAD	ATX1008
	L1131	FERRITE BEAD	ATX1008
	L1151, 1152	AXIAL INDUCTOR	LAU330K
	L1161	AXIAL INDUCTOR	LAU330K
	L1162	FERRITE BEAD	ATX1008
	L1181−1185	FERRITE BEAD	ATX1008
	L1241, 1242	FERRITE BEAD	ATX1008
	L1251, 1252	FERRITE BEAD	ATX1008
	L1186	FERRITE BEAD	ATX1008

CAPACITORS

Mark	No.	Description	Parts No.
	C1101, 1102	CERAMIC CAPACITOR	CKDYX473M25
	C1103, 1104	ELECTR.CAPACITOR	CEAS470M16
	C1105, 1106	CERAMIC CAPACITOR	CKDYB102K50
	C1107, 1108	ELECTR.CAPACITOR	CEAS100M25
	C1109, 1110	MYLOR FILM CAPACITOR	CQMA153J50
	C1113, 1114	CERAMIC CAPACITOR	CKDYB222K50
	C1115	CERAMIC CAPACITOR	CKDYX104M25
	C1116	ELECTR.CAPACITOR	CEAS470M10
	C1117	CERAMIC CAPACITOR	CKDYB471K50
	C1118	ELECTR.CAPACITOR	CEAS470M10
	C1119	CERAMIC CAPACITOR	CKDYX104M25
	C1120−1122	CERAMIC CAPACITOR	CKDYX473M25
	C1123	ELECTR.CAPACITOR	CEAS101M10
	C1131	CERAMIC CAPACITOR	CKDYX473M25
	C1132	ELECTR.CAPACITOR	CEAS470M10
	C1133	ELECTR.CAPACITOR	CEAS221M10
	C1134	ELECTR.CAPACITOR	CEAS101M16
	C1137, 1138	ELECTR.CAPACITOR	CEAS220M25
	C1139, 1140	MYLOR FILM CAPACITOR	CQMA821J50
	C1141, 1142	MYLOR FILM CAPACITOR	CQMA222J50
	C1143, 1144	CERAMIC CAPACITOR	CCDCH121J50
	C1145, 1146	MYLOR FILM CAPACITOR	CQMA223J50
	C1150−1153	CERAMIC CAPACITOR	CKDYX473M25
	C1154, 1155	ELECTR.CAPACITOR	CEAS101M10
	C1156	MYLOR FILM CAPACITOR	CQMA223J50
	C1157	MYLOR FILM CAPACITOR	CQMA821J50
	C1158	MYLOR FILM CAPACITOR	CQMA222J50
	C1159	CERAMIC CAPACITOR	CCDCH121J50
	C1160	ELECTR.CAPACITOR	CEAS220M25
	C1161	CERAMIC CAPACITOR	CKDYX473M25
	C1162−1165	ELECTR.CAPACITOR	CEAS470M10
	C1166	CERAMIC CAPACITOR	CKDYX473M25
	C1167	CERAMIC CAPACITOR	CKDYB471K50
	C1169, 1170	MYLOR FILM CAPACITOR	CQMA821J50
	C1171, 1172	CERAMIC CAPACITOR	CCDCH121J50
	C1173, 1174	MYLOR FILM CAPACITOR	CQMA222J50

Mark	No.	Description	Parts No.
	C1175, 1176	ELECTR.CAPACITOR	CEAS220M25
	C1177, 1178	MYLOR FILM CAPACITOR	CQMA223J50
	C1181, 1182	CERAMIC CAPACITOR	CCDCH101J50
	C1183−1186	ELECTR.CAPACITOR	CEAS220M25
	C1187, 1188	MYLOR FILM CAPACITOR	CQMA152K50
	C1189, 1190	CERAMIC CAPACITOR	CCDCH101J50
	C1194	AUDIO FILM CAPACITOR	CFTXA274J50
	C1195	ELECTR.CAPACITOR	CEAS220M25
	C1196	CERAMIC CAPACITOR	CCDCH101J50
	C1197	ELECTR.CAPACITOR	CEAS220M25
	C1198	MYLOR FILM CAPACITOR	CQMA152K50
	C1199	ELECTR.CAPACITOR	CEANP2R2M50
	C1201, 1202	ELECTR.CAPACITOR	CEAS470M10
	C1203, 1204	CERAMIC CAPACITOR	CCDCH560J50
	C1211	CERAMIC CAPACITOR	CKDYX473M25
	C1212	CERAMIC CAPACITOR	CKDYB102K50
	C1214	CERAMIC CAPACITOR	CKDYX473M25
	C1234, 1235	CERAMIC CAPACITOR	CKDYB102K50
	C1236−1239	CERAMIC CAPACITOR	CCDCH101J50
	C1240	ELECTR.CAPACITOR	CEAS101M10
	C1241	CERAMIC CAPACITOR	CKDYX473M25
	C1242	CERAMIC CAPACITOR	CKDYB102K50
	C1243, 1244	CERAMIC CAPACITOR	CCDCH100D50
	C1245	CERAMIC CAPACITOR	CKDYX473M25
	C1246	CERAMIC CAPACITOR	CKDYB102K50
	C1247	ELECTR.CAPACITOR	CEAS101M10
	C1248	CERAMIC CAPACITOR	CKDYX104M25
	C1249	CERAMIC CAPACITOR	CCDCH101J50
	C1251	MYLOR FILM CAPACITOR	CQMA472J50
	C1252	MYLOR FILM CAPACITOR	CQMA122J50
	C1254	ELECTR.CAPACITOR	CEAS220M16
	C1255	ELECTR.CAPACITOR	CEAS470M25
	C1256	ELECTR.CAPACITOR	CEAS100M25
	C1257	MYLOR FILM CAPACITOR	CQMA333K50
	C1258	MYLOR FILM CAPACITOR	CQMA472K50
	C1259	ELECTR.CAPACITOR	CEAS220M16
	C1260	ELECTR.CAPACITOR	CEAS101M16
	C1261	MYLOR FILM CAPACITOR	CQMA333K50
	C1262	AUDIO FILM CAPACITOR	CFTXA104J50
	C1267	ELECTR.CAPACITOR	CEAS010M50
	C1263	ELECTR.CAPACITOR	CEASR33M50
	C1264	CERAMIC CAPACITOR	CKDYB471K50
	C1265, 1266	ELECTR.CAPACITOR	CEAS010M50
	C1269, 1270	ELECTR.CAPACITOR	CEAS220M25
	C1271, 1272	MYLOR FILM CAPACITOR	CQMA152K50

Mark	No.	Description	Parts No.
RESISTORS			
	VR1101, 1102	VR	VRTB6VS102
	VR1103	VR	VRTB6VS104
	VR1201	VR	VRTB6VS223
		Other resistors	RD1/8PM□□□J
OTHERS			
	X1101	CRYSTAL RESONATOR	ASS1035

HEADPHONE assembly

OTHERS

Mark	No.	Description	Parts No.
		JACK (HEADPHONE)	AKN1002

● S. VIDEO assembly (AWZ3564)

SEMICONDUCTORS

Mark	No.	Description	Parts No.
	IC1650	VIDEO SEITCH	LA7952
	IC1651	E−SW IC	NJM2233BS
	IC1652	VIDEO SEITCH	LA7952
	IC1653	E−SW IC	NJM2233BS
	IC1654, 1655	VIDEO SEITCH	LA7952
	IC1656, 1657	E−SW IC	NJM2234L
	IC1658	LOGIC IC	BU4066BL
	Q1650−1656	TRANSISTOR	2SC2458
	Q1657, 1658	TRANSISTOR	XDA124ES
	Q1659	TRANSISTOR	2SC2458
	Q1662−1664	TRANSISTOR	2SA1048
	D1650−1653	DIODE	1SS252
	D1655	ZENER DIODE	RD5.1ESB1

CAPACITORS

Mark	No.	Description	Parts No.
	C1650−1652	ELECTR.CAPACITOR	CEAS4R7M50
	C1653−1655	ELECTR.CAPACITOR	CEAS470M16
	C1657−1659	ELECTR.CAPACITOR	CEAS4R7M50
	C1660	ELECTR.CAPACITOR	CEAS101M10
	C1661−1666	CERAMIC CAPACITOR	CKCYX103M25
	C1667−1674	ELECTR.CAPACITOR	CEAS470M16
	C1675−1677	ELECTR.CAPACITOR	CEAS101M16
	C1678	ELECTR.CAPACITOR	CEAS470M16
	C1687	AXIAL CERAMIC C.	CCPUSL470J50
	C1688	ELECTR.CAPACITOR	CEAS4R7M50
	C1689	ELECTR.CAPACITOR	CEAS470M16
	C1690	CERAMIC CAPACITOR	CKCYF473Z50
	C1691	ELECTR.CAPACITOR	CEAS470M25
	C1692−1694	AXIAL CERAMIC C.	CCPUSL470J50
	C1695	ELECTR.CAPACITOR	CEAS101M10
	C1696	ELECTR.CAPACITOR	CEAS470M25
	C1697, 1698	CERAMIC CAPACITOR	CCCSL101J50
	C1699	CERAMIC CAPACITOR	CCCSL330J50

RESISTORS

Mark	No.	Description	Parts No.
		All resistors	RD1/8PM□□□J

OTHERS

Mark	No.	Description	Parts No.
		SOCKET (S.TERM.)	AKP1065

◉ R.C.AMP assembly (AWZ3568)

SEMICONDUCTORS

Mark	No.	Description	Parts No.
	IC901−903	PREDRIVER−IC	UPC1270H
	Q901−903	TRANSISTOR	2SC2458

CAPACITORS

Mark	No.	Description	Parts No.
	C901, 902	ELECTR.CAPACITOR	CEAS2R2M50
	C903, 904	CERAMIC CAPACITOR	CKMYB102K50
	C905, 906	ELECTROLYTIC CAPACIT	CEHAQ101M10
	C907, 908	CERAMIC CAPACITOR	CCMSL270J50
	C909, 910	ELECTR.CAPACITOR	CEHAQ100M50
	C911, 912	AUDIO FILM CAPACITOR	CFTXA333J50
	C913, 914	ELECTROLYTIC CAPACIT	CEAS4R7M100
	C915, 916	ELECTR.CAPACITOR	CEAS100M50
	C917	ELECTROLYTIC CAPACIT	CEAS4R7M100
	C919	ELECTR.CAPACITOR	CEAS2R2M50
	C920	CERAMIC CAPACITOR	CKMYB102K50
	C921	ELECTROLYTIC CAPACIT	CEHAQ101M10
	C922	CERAMIC CAPACITOR	CCMSL270J50
	C923	ELECTR.CAPACITOR	CEHAQ100M50
	C924	AUDIO FILM CAPACITOR	CFTXA333J50

RESISTORS

Mark	No.	Description	Parts No.
	R919, 920	RESISTOR (0.22, 2W)	ACN−131
	R929	RESISTOR (0.22, 2W)	ACN−131
	R933−938	FUSIBLE RESISTOR	RFA1/4PS4R7J
		Other resistors	RD1/8PM□□□J

◉ REGULATOR 1 assembly (AWZ3574)

SEMICONDUCTORS

Mark	No.	Description	Parts No.
	IC103	REGULATOR IC	NJM78M12FAS
	Q106	TRANSISTOR	2SA1306
	D118	DIODE	1SS252

CAPACITORS

Mark	No.	Description	Parts No.
	C123	CERAMIC CAPACITOR	CKCYF103Z50
	C125	ELECTR.CAPACITOR	CEAS470M16

◉ REGULATOR 2 assembly (AWZ3575)

SEMICONDUCTORS

Mark	No.	Description	Parts No.
	IC101	REGULATOR IC	NJM78M15FAS
	IC102	REGULATOR IC	NJM79M15FA

CAPACITORS

Mark	No.	Description	Parts No.
	C119, 120	CERAMIC CAPACITOR	CKCYF103Z50
	C121, 122	ELECTR.CAPACITOR	CEAS470M16

◉ OSD assembly (AWZ3634)

SEMICONDUCTORS

Mark	No.	Description	Parts No.
	IC1501	TV IC	UPC1377C
	IC1502	OSD IC	M50554−003SP
	IC1503	REGULATOR IC	UPC78L05
	Q1501, 1502	TRANSISTOR	2SC2458
	Q1503, 1504	TRANSISTOR	2SA1048
	Q1505	TRANSISTOR	XDA124ES
	Q1506, 1507	TRANSISTOR	2SC2458
	Q1508	TRANSISTOR	XDC124ES
	Q1509	TRANSISTOR	XDA124ES
	D1501	ZENER DIODE	RD5.1ESB1
	D1503−1505	DIODE	1SS252

COILS

Mark	No.	Description	Parts No.
	L1501	AXIAL INDUCTOR	LAU390K
	L1502	AXIAL INDUCTOR	LAU150K
	L1503, 1504	AXIAL INDUCTOR	LAU270K

CAPACITORS

Mark	No.	Description	Parts No.
	TC1501	CERAMIC TRIMMER	ACM−020
	C1501	ELECTR.CAPACITOR	CEAS101M16
	C1502	CERAMIC CAPACITOR	CCCSL560J50
	C1503	ELECTR.CAPACITOR	CEAS010M50
	C1504	CERAMIC CAPACITOR	CKCYB561K50
	C1505, 1506	MYLOR FILM CAPACITOR	CQMA333J50
	C1507	ELECTR.CAPACITOR	CEAS010M50
	C1508	AUDIO FILM CAPACITOR	CFTXA105J50
	C1509	CERAMIC CAPACITOR	CKCYF473Z50
	C1510	MYLOR FILM CAPACITOR	CQMA333J50
	C1511	ELECTR.CAPACITOR	CEAS010M50
	C1512	CERAMIC CAPACITOR	CKCYB152K50
	C1513	AUDIO FILM CAPACITOR	CFTXA823J50
	C1514	CERAMIC CAPACITOR	CKCYB472K50
	C1515	PL.STYRENE CAPACITOR	CQSA562J50
	C1516	ELECTR.CAPACITOR	CEAS2R2M50

Mark	No.	Description	Parts No.
	C1517	ELECTR.CAPACITOR	CEAS101M16
	C1518	CERAMIC CAPACITOR	CCCSL101J50
	C1519	AUDIO FILM CAPACITOR	CFTXA104J50
	C1520	ELECTR.CAPACITOR	CEAS2R2M50
	C1521	ELECTR.CAPACITOR	CEAS101M10
	C1522	CERAMIC CAPACITOR	CKCYF103Z50
	C1523	ELECTR.CAPACITOR	CEAS220M25
	C1524, 1525	CERAMIC CAPACITOR	CCCCH150J50
	C1526	CERAMIC CAPACITOR	CCCSL330J50
	C1527	ELECTR.CAPACITOR	CEAS470M16
	C1528	CERAMIC CAPACITOR	CCCSL220J50
	C1529	CERAMIC CAPACITOR	CKCYF103Z50
	C1530	CERAMIC CAPACITOR	CCCSL220J50
	C1531	CERAMIC CAPACITOR	CKCYF103Z50
	C1534	CERAMIC CAPACITOR	CCCSL220J50
	C751–754	CERAMIC CAPACITOR	CKCYB102K50

RESISTORS

Mark	No.	Description	Parts No.
	VR1501	VR	VRTS6HS103
	VR1502	VR	VRTS6HS472
	R1515	CARBON FILM RESISTOR	RD1/4PMF100J
	R1518	METALFILM RESISTER	RN1/4PC1202F
	R1544	CARBON FILM RESISTOR	RD1/4PM4R7J
		Other resistors	RD1/8PM□□□J

OTHERS

Mark	No.	Description	Parts No.
		PIN JACK 1P (SUB WOOFER)	AKB1139
		PIN JACK 2P (CENTER AMP)	AKB1142
	CN	PIN JACK 4P (REAR AMP)	AKB1181
	CN42	CONNECTOR 4P	KPC4
	X1505	CRYSTAL RESONATOR	ASS1056

● MAIN FUNCTION assembly (AWZ3673)

SEMICONDUCTORS

Mark	No.	Description	Parts No.
	IC201	E–SW IC	TC9164N
	IC202	E–SW IC	TC9163N
	IC203	OP AMP	M5238LF

CAPACITORS

Mark	No.	Description	Parts No.
	C201–208	CERAMIC CAPACITOR	CCCSL101J50
	C211, 212	ELECTR.CAPACITOR	CEAS100M50
	C213	ELECTR.CAPACITOR	CEAS010M50
	C214, 215	ELECTR.CAPACITOR	CEAS470M16
	C220, 221	CERAMIC CAPACITOR	CKCYB102K50
	C230	CERAMIC CAPACITOR	CKCYB102K50

RESISTORS

Mark	No.	Description	Parts No.
		All resistors	RD1/8PM□□□J

OTHERS

Mark	No.	Description	Parts No.
		PHONO JACK 6P	AKB1154
	CN	PIN JACK 8P (TAPE1/DAT, TAPE2)	AKB1182

● SUB FUNCTION assembly (AWZ3674)

SEMICONDUCTORS

Mark	No.	Description	Parts No.
	IC301	E–SW IC	TC9164N
	IC302	E–SW IC	TC9163N
	IC303	OP AMP	M5238LF

CAPACITORS

Mark	No.	Description	Parts No.
	C301–310	CERAMIC CAPACITOR	CCCSL101J50
	C315, 316	ELECTR.CAPACITOR	CEAS220M50
	C317	ELECTR.CAPACITOR	CEAS010M50
	C318, 319	ELECTR.CAPACITOR	CEAS470M16
	C320, 321	CERAMIC CAPACITOR	CKCYB102K50
	C330	CERAMIC CAPACITOR	CKCYB102K50

RESISTORS

Mark	No.	Description	Parts No.
		All resistors	RD1/8PM□□□J

OTHERS

Mark	No.	Description	Parts No.
	CN	6P PIN JACK (CD, CDV, TV, VIDEO)	AKB1178
	CN	8P PIN JACK (VCR1, 2)	AKB1179
	CN21, 22	CONNECTOR (15P)	KPE15
	CN23	CONNECTOR (11P)	KPE11
	CN24	CONNECTOR (7P)	KPE7

● VIDEO FUNCTION assembly (AWZ3675)

SEMICONDUCTORS

Mark	No.	Description	Parts No.
	IC1601–1606	E–SW IC	NJM2234L
	Q1601–1608	TRANSISTOR	2SC2458

COILS

Mark	No.	Description	Parts No.
	L1601, 1602	AXIAL INDUCTOR	LAUR22M

CAPACITORS

Mark	No.	Description	Parts No.
	C1601–1605	ELECTR.CAPACITOR	CEAS470M16
	C1606–1609	ELECTR.CAPACITOR	CEAS101M10
	C1610, 1611	ELECTR.CAPACITOR	CEAS470M16
	C1613	ELECTR.CAPACITOR	CEAS470M16
	C1614	CERAMIC CAPACITOR	CCCSL270J50

Mark No.	Description	Parts No.
C1615	ELECTR.CAPACITOR	CEAS470M16
C1616	CERAMIC CAPACITOR	CCCSL270J50
C1617 – 1619	ELECTR.CAPACITOR	CEAS470M16
C1625 – 1627	ELECTR.CAPACITOR	CEAS470M16
C1628, 1629	CERAMIC CAPACITOR	CKDYX473M25
C1630	ELECTR.CAPACITOR	CEAS470M16
C1632	CERAMIC CAPACITOR	CKDYX473M25

RESISTORS

Mark No.	Description	Parts No.
	All resistors	RD1/8PM☐☐☐J

OTHERS

Mark No.	Description	Parts No.
CN	PIN JACK 3P (VIDEO IN)	AKB1170
CN	PIN JACK 2P (VIDEO IN)	AKB1173

◉ ENHANCER assembly (AWZ3676)

SEMICONDUCTORS

Mark No.	Description	Parts No.
IC1701	E–SW IC	NJM2233BS
IC1702	E–SW IC	NJM2234L
IC1703	LOGIC IC	BU4066BL
IC1704	E–SW IC	NJM2209S
IC1705	E–SW IC	NJM2235S
Q1701 – 1705	TRANSISTOR	2SC2458
Q1706 – 1708	TRANSISTOR	XDA124ES
Q1709	TRANSISTOR	2SA1048
Q1710	TRANSISTOR	XDC124ES
Q1711, 1712	TRANSISTOR	2SA1048
Q1713	TRANSISTOR	2SC2458
Q1714, 1715	TRANSISTOR	2SA1048
Q1716	TRANSISTOR	2SC2458
Q1717	TRANSISTOR	2SC3327
Q1718, 1719	TRANSISTOR	2SC2458
Q1720	TRANSISTOR	2SA1048
Q1721 – 1726	TRANSISTOR	2SC2458
Q1727	TRANSISTOR	2SA1048
Q1728	TRANSISTOR	2SC3327
D1701 – 1704	DIODE	1SS252
D1707	ZENER DIODE	RD5.6ESB

COILS

Mark No.	Description	Parts No.
L1740	AXIAL INDUCTOR	LAU221K
L1741	AXIAL INDUCTOR	LAU270K
L1742	AXIAL INDUCTOR	LAU390K
L1743, 1744	AXIAL INDUCTOR	LAU221K
L1745	AXIAL INDUCTOR	LAU270K
L1746	AXIAL INDUCTOR	LAU390K
L1747, 1748	AXIAL INDUCTOR	LAU101K

CAPACITORS

Mark No.	Description	Parts No.
C1701 – 1703	ELECTR.CAPACITOR	CEAS2R2M50
C1704 – 1707	ELECTR.CAPACITOR	CEAS470M16
C1708	AUDIO FILM CAPACITOR	CFTXA823J50
C1709	AUDIO FILM CAPACITOR	CFTXA393J50
C1711	AUDIO FILM CAPACITOR	CFTXA104J50
C1712	CERAMIC CAPACITOR	CCCCH070D50
C1713	CERAMIC CAPACITOR	CCCCH030C50
C1714, 1715	CERAMIC CAPACITOR	CCCCH680J50
C1716	CERAMIC CAPACITOR	CCCSL100D50
C1717, 1718	CERAMIC CAPACITOR	CCCCH470J50
C1719	ELECTR.CAPACITOR	CEAS101M10
C1720	PL. STYRENE CAPACITOR	CQMA561J50
C1721	ELECTR.CAPACITOR	CEAS2R2M50
C1722	CERAMIC CAPACITOR	CCCSL221J50
C1723	CERAMIC CAPACITOR	CCCSL151J50
C1724	CERAMIC CAPACITOR	CCCCH180J50
C1725	CERAMIC CAPACITOR	CCCSL220J50
C1726	CERAMIC CAPACITOR	CKCYB472K50
C1727	ELECTR.CAPACITOR	CEAS101M10
C1728, 1729	ELECTR.CAPACITOR	CEAS470M16
C1730, 1731	ELECTR.CAPACITOR	CEAS2R2M50
C1732, 1733	ELECTR.CAPACITOR	CEAS470M16
C1734	CERAMIC CAPACITOR	CCCSL100D50
C1735	CERAMIC CAPACITOR	CKDYF103Z50
C1736	CERAMIC CAPACITOR	CCCSL070D50
C1737 – 1740	ELECTR.CAPACITOR	CEAS470M16
C1747, 1748	ELECTR.CAPACITOR	CEAS470M16
C1753	CERAMIC CAPACITOR	CCCSL470J50
C1749	CERAMIC CAPACITOR	CCDSL220J50

RESISTORS

Mark No.	Description	Parts No.
	All resistors	RD1/8PM☐☐☐J

OTHERS

Mark No.	Description	Parts No.
CN	PIN JACK 3P (VIDEO OUT)	AKB1170
CN25	CONNECTOR (9P)	KPE9

◉ BARRIER assembly (AWZ3825)

RESISTORS

Mark No.	Description	Parts No.
R1	CARBONFILM RESISTOR	RD1/8PM102J

5. ADJUSTMENTS

5.1 TUNER SECTION

1. Connect the wires as shown in Fig. 5−1 (FM ANT. terminal : 75Ω).
2. When the SD model is used, set the band select switch to AM : 10kHz/FM : 100kHz.

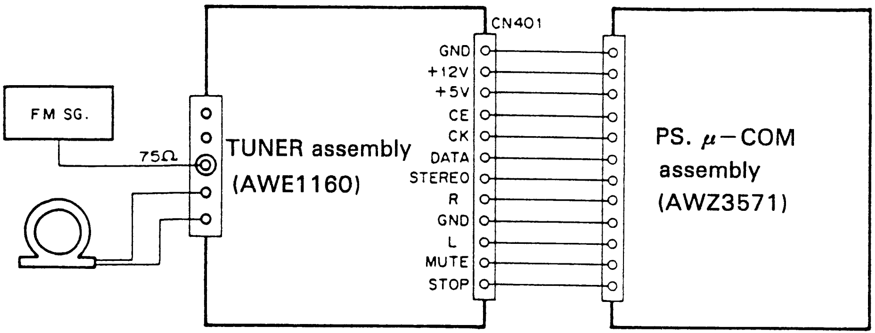

Fig. 5−1

FM Section

Note: Stereo modulation: Main 1kHz L+R ±68.25kHz
Pilet 19 kHz ±6.75kHz

Order	Item	SSG			Receiving frequency	Adjustment	
		Frequency	Modulation	Level		Adjustment location	Remarks
1	Checking front end VT	No signal			108MHz	——	Check that the voltage between terminal 41 and ground is 8.7 ±2.0V.
2	Checking front end VT				87.5MHz	——	Check that the voltage between terminal 41 and ground is 3.4±1.5V.
3	Increasing front end sensitivity	98MHz		Weak input	98MHz	L402, L404, T402	Set the voltage between terminal 43 and ground to maximum, and check that the practical sensitivity is as specified.
4	Center adjustment	98MHz		60dBμV	98MHz	L431	Adjust the voltage between terminals 45 and 46 to 0±50mV.
5	Checking monophonic distortion	98MHz	1kHz ±75kHz dev.	60dBμV	98MHz	——	Check that the monophonic distortion is as specified.
6	Adjusting VCO		OFF	60dBμV		VR451	Adjust the output of terminal 44 to 76.0kHz±1.0kHz.
7	Adjusting stereo distortion	98MHz	L−ONLY R−ONLY	60dBμV	98MHz	T402	Minimize the distortion within 1/4 rotation of the core,and check conformity to the specification.
8	Checking separation	98MHz	L−ONLY R−ONLY	60dBμV	98MHz	——	Check that the separation of L→R and R→L is as specified.
9	Checking lighting levels of TUNED and STEREO IND.	98MHz	STEREO		98MHz	——	Check that the lighting levels of TUNED and STEREO IND. are as Specified.

AM Section

Order	Item	SSG			Receiving frequency	Adjustment	
		Frequency	Modulation	Level		Adjustment location	Remarks
1	Checking front end VT	No signal			1700kHz	——	Check that the voltage between terminal 41 and ground is 7.5 ±1.0V.
2	Checking front end VT				530kHz	——	Check that the voltage between terminal 41 and ground is 1.5±0.5V.
3	Checking front end sensitivity	1000kHz	400kHz 30% MOD.	Practical sensitivity level	1000kHz	——	Check that the practical sensitivity (maximum sensitivity) is as specified.
4	Adjusting lighting level of TUNED IND.	1000kHz			1000kHz	VR431	Adjust the lighting level of TUNED IND. to 55dBμV/m ±3dB.

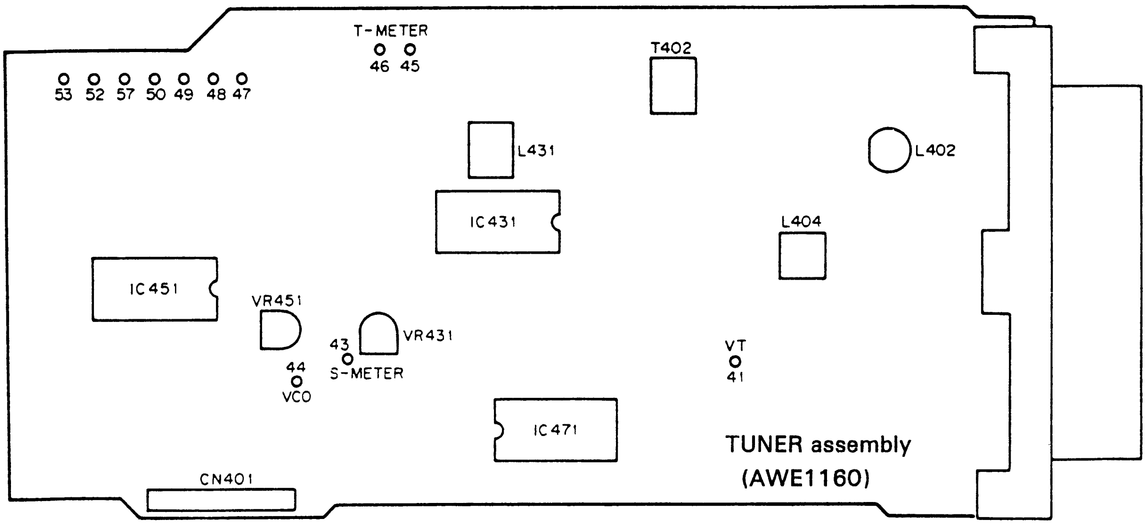
T-METER
46 45
T402
53 52 57 50 49 48 47
L431
L402
IC431
L404
IC451
VR451
43
VR431
44
S-METER
VCO
VT
41
IC471
TUNER assembly
(AWE1160)
CN401

Fig. 5－2 Adjustment points

5.2 DSP ASSEMBLY SECTION
(Refer to Fig. 5−4)

- Set the MUSTER VOLUME to the minimum.

1) A/D DC Bias Adjustment

- Set the INPUT SELECTOR to LINE. Set the LINE INPUT terminal to input disabled.
- Adjust the output voltage of pins 1 (ADIN1) and 23 (ADIN2) of IC1103 (LC7886) as follows :
  a) Measure the value of pin 3 (AVDD) of IC1103. Divide the value in half and record that value (1/2 AVDD).
  b) Adjust the voltage of pin 1 (ADIN1) at VR1101 to the recorded value (1/2 AVDD) ±0.005V.
  c) Adjust the voltage of pin 23 (ADIN2) at VR1102 to the recorded value (1/2 AVDD) ±0.005V.

2) Dolby Level Adjustment

- Input sine wave signal of 1kHz, 260mV to the LINE input. Rch only.
- Set the INPUT SELECTOR to the LINE.
- Set the SURROUND MODE switches to the DANCE.
- Turn the JOG dial to set the EFFECT level to "5."
- Check value of R1264.
- Adjust with VR1201 so that the output of the R1263 lead (A) (nothing is connected) of the DSP assembly becomes the following :
  50mV±5mV when R1264 is 5.6kΩ.
  63mV±5mV when R1264 is 7.5kΩ.

NOTE :

- *VR 1103 is for adjusting distortion factor.*
- *Adjust it to the mechanical center position.*

5.3 OSD ASSEMBLY SECTION
(Refer to Fig. 5−4)

1) Adjusting H. SYNC and V. SYNC for Superimposed Display.

- Adjust the VR1502 so that the application of power without any signal causes the OSD assembly's TP (H. sync) to show a frequency of 15.75kHz±50Hz.
- Adjust the VR1501 so that the application of power without any signal causes the OSD assembly's TP (V. sync) to show a frequency of 53Hz±1Hz.

2) Adjusting the Superimposed Display in the Center

- Connect the VIDEO OUT (TO MONITOR TV) terminal to a monitor TV.
- Select one of JASS THEATERS of the SURROUND MODE switch.
- Turn the JOG dial to display "Effect Level 100". Then adjust the TC1501 to center the superimposed display "Effect Lavel 100", leaving equal margin on both right and left of the TV screen.

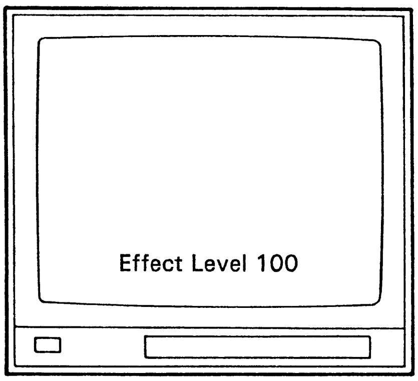

Fig. 5−3

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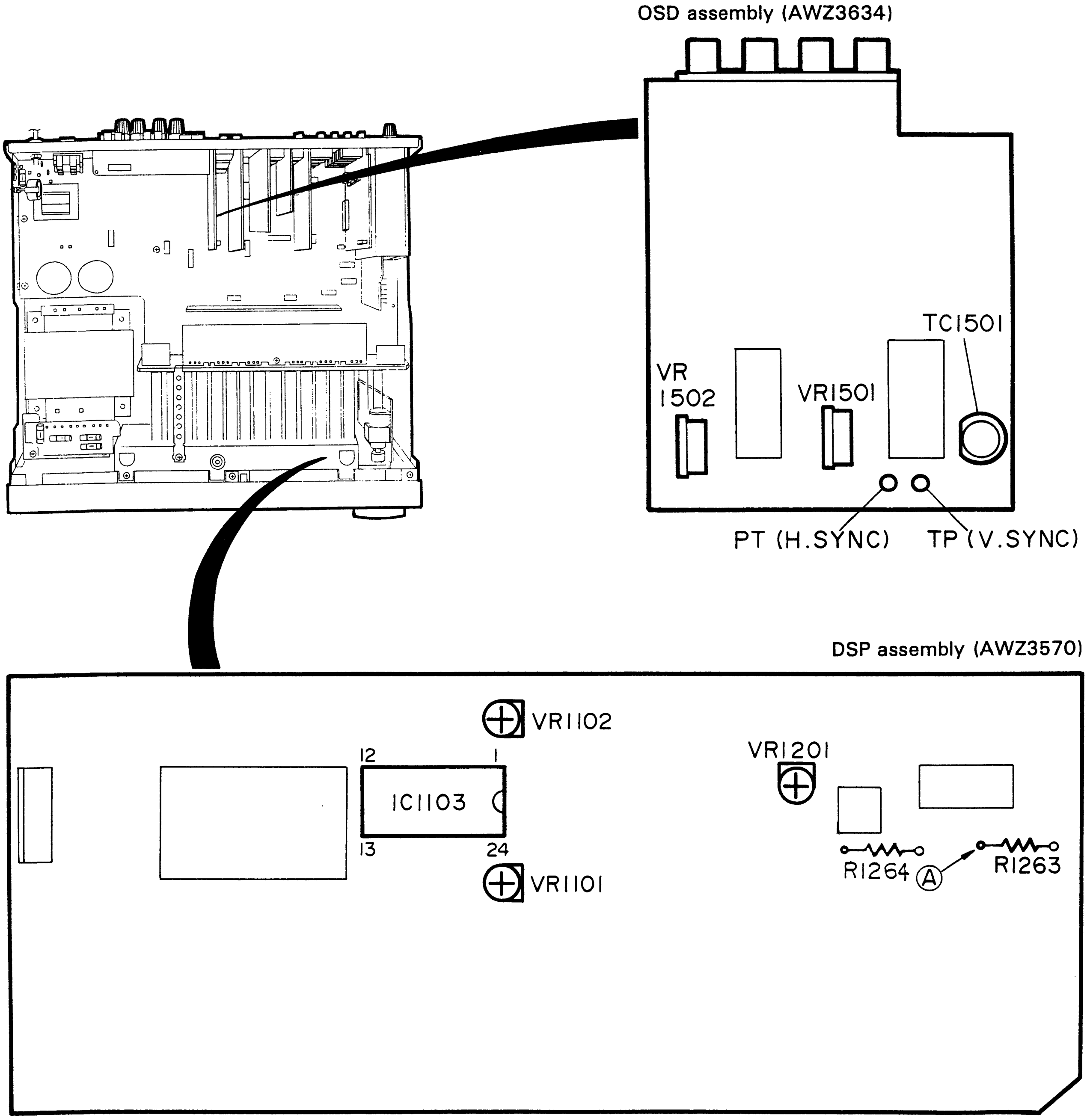

OSD assembly (AWZ3634)
VR 1502
VR1501
TC1501
PT (H.SYNC)
TP (V.SYNC)
DSP assembly (AWZ3570)
VR1102
12
1
IC1103
13
24
VR1101
VR1201
R1264
Ⓐ
R1263

Fig. 5−4 Adjustment points

6. IN INFORMATION

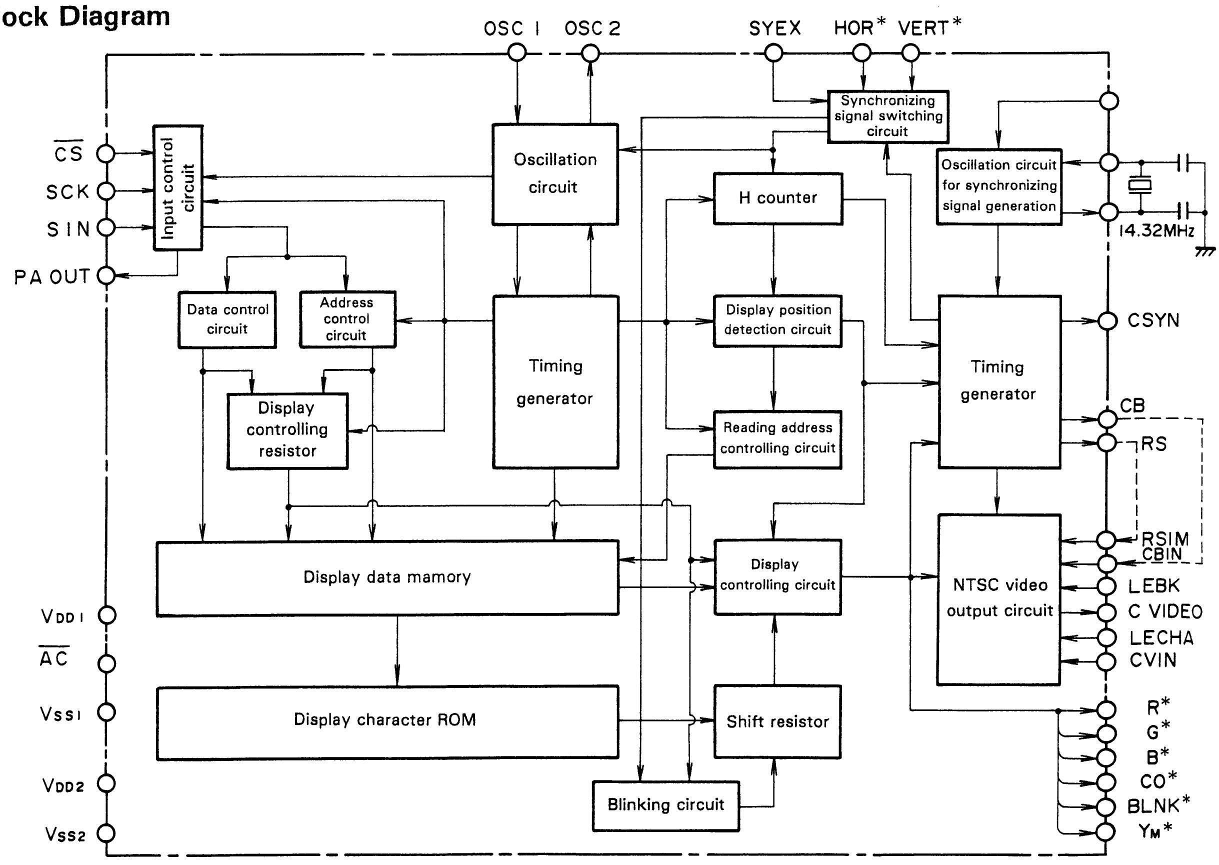
■ IC1502 (M50554−003SP) : OSD IC

• Pin Function

No.	Symbol	Pin Name	Description
1	Vss1	Ground terminal	Connect to GND using a digital ground terminal.
2	SCK	Serial clock input	Collects serial data of SIN at the leading edge of SCK when the CS terminal is LOW. Hysteresis input. Equipped with a pull−up resistor.
3	$\overline{AC}$	Auto clear input	Resets the IC internal circuit when the mode is LOW. Equipped with a pull−up resistor. Hysteresis input.
4 5	OSC1 OSC2	Oscillation circuit external terminal	An external terminal for the display oscillation circuit. The standard oscillation frequency is approximately 7MHz. The oscillation frequency determines the horizontal display position and the character width on the TV monitor.
6	N/$\overline{P}$	NTSC/PAL switching input	A synchronizing signal switching terminal for NTSC or PAL. Synchronizing signals in NTSC are generated when the mode is HIGH. Synchronizing signals in PAL are generated when the mode is LOW. Equipped with a pull−up resistor.
7	$\overline{CS}$	Chip select input	A chip select terminal. Goes LOW when performing serial data transmission. Equipped with a pull−up resistor.
8	SIN	Serial date input	Inputs data and address of memory for the display controlling resistor and the display data. Equipped with a pull−up resistor.
9	PAOUT	Parity output	An odd parity output. Detects a 1−bit error in a word of SIN.
10	SYEX	Synchronizing signal switching input	A switching terminal of the external or internal synchronizing signals. Changes to the external synchronizing signal when the mode is HIGH. Changes to internal synchronizing signal when the mode is LOW. SYEX atructures the logical or of the EX resistor of address 243 in the display controlling resistor and the internal synchronization priority. Equipped with a pull−up resistor.
11	Vss2	Ground terminal	Connect to GND using an analog ground terminal.
12	CVIDEO	Composite video output	An output terminal of compound video signals. Outputs 2Vp−p compound video signals. During the superimpose mode, outputs by superimposing character output to the CVIN signal.
13	CVIN	Compound video input	An input terminal of compound video signals. During the superimpose mode, character output, etc. will be superimposed to the compound video signal.
14	LEBK	Blanking level	An input terminal to detemine the blanking level of the video signal.
15	LECHA	Character level input	An input terminal to determine the character output level of the video signal. The color of characters is white.
16	CBIN	Color burst signal input	Converts the CB output to the color burst signal level of the video signal at the external circuit and inputs it.
17	RSIN	Character background carrier color signal input	Converts the RS output to the carrier color signal level of the video signal at the external circuit and inputs it.
18	VDD2	Power terminal	Connect to +5V using an analog power terminal.
19	RS	Character background carrier color signal output	A carrier color signal output for color character background. Outputs signals with a phase angle to the color burst signal CB. Amplification: 5V
20	CB	Color burst signal output	Output color burst signals of 3.58MHz for NTSC and 4.43MHz for PAL.

No.	Symbol	Pin Name	Description
21	YM*	Luminance signal output	Outputs the luminance signal. Can select polarity when specifying the font ROM.
22	BLNK*	Character background output	Outputs the character background signal. Can select polarity when specifying the font ROM.
23	CO*	Character output	Outputs the character signal. Can select polarity when specifying the font ROM.
24	B*	Blue output	A blue output terminal. Can select polarity when specifying the font ROM.
25	G*	Green output	A green output terminal. Can select polarity when specifying the font ROM.
26	R*	Red output	A red output terminal. Can select polarity when specifying the font ROM.
27	CSYN	Compound synchronizing signal output	Outputs compound synchronizing signal in NTSC or PAL. Negative polarity. Amplification: 5V
28	OSCOUT	Oscillation circuit for synchronous signal generation	an external terminal of the oscillation circuit for synchronizing signal generation. Uses an oscillation frequency of 14.32MHz for NTSC and 17.73MHz for PAL.
29	OSCIN		
30	HOR*	Horizontal synchronizing signal	Inputs the horizontal synchronizing signal. Hysteresis input. Can select polarity when specifying the font ROM.
31	VERT*	Vertical synchronizing signal	Inputs the vertical synchronizing signal. Hysteresis input. Can select polarity when specifying the font ROM.
32	VDD	Power terminal	Connect to +5V using a digital power terminal.

- **Block Diagram**


OSC 1
OSC 2
SYEX
HOR*
VERT*
CS
SCK
SIN
PA OUT
Input control circuit
Oscillation circuit
Synchronizing signal switching circuit
H counter
Oscillation circuit for synchronizing signal generation
14.32MHz
Data control circuit
Address control circuit
Display controlling resistor
Timing generator
Display position detection circuit
Reading address controlling circuit
Timing generator
CSYN
CB
RS
RSIM
CBIN
NTSC video output circuit
LEBK
C VIDEO
LECHA
CVIN
Display data mamory
Display controlling circuit
Display character ROM
Shift resistor
Blinking circuit
VDD1
AC
VSS1
VDD2
VSS2
R*
G*
B*
CO*
BLNK*
YM*

IC1901 (PDG072A) : DISPLAY CONTROL μ−COM)

• Pin Function

No.	Pin Name	I/O	Description	Logic
1	S4/PG0	O	Segment output	
2	S5/PG1	O	Segment output	
3	S6/PG2	O	Segment output	
4	S7/PG3	O	Segment output	
5	S8/PKO	O	Segment output	
6	S9/PK1	O	Segment output	
7	S10/PK2	O	Segment output	
8	S11/PK3	O	Segment output	
9	S12/PJ0	O	Segment output	
10	S13/PJ1	O	Segment output	
11	S14/PJ2	O	Segment output	
12	S15/PJ3	O	Segment output	
13	S16/T15	O	Segment output	
14	S17/T14	O	Segment output	
15	S18/T13	O	Segment output	
16	S19/T12	O	Segment output	
17	S20/T11	O	Segment output	
18	S21/T10	O	Grid output & Key Scan output	
19	S22/T9	O	Grid output & Key Scan output	
20	S23/T8	O	Grid output & Key Scan output	
21	T7	O	Grid output & Key Scan output	
22	T6	O	Grid output & Key Scan output	
23	T5	O	Grid output & Key Scan output	
24	T4	O	Grid output & Key Scan output	
25	T3	O	Grid output & Key Scan output	
26	T2	O	Grid output & Key Scan output	
27	T1	O	Grid output & Key Scan output	
28	T0	O	Grid output & Key Scan output	
29	INT	I	Detection of video signal existence. When the video signal is not input, output the video signal (blue) to video out terminal. L···Exist H···Not exist	
30	TX	–	Not used	
31	TEX	I	Not used	
32	$\overline{\text{RST}}$	I	RESET input	
33	NC	–		
34	VDD	–	+5V Power supply	
35	PI0/AD0	I	DC input for Level meter	
36	PI1/AD1	I	DC input for Level meter	
37	PI2/AD2	I	DC input for Level meter	
38	PI3/AD3	I	DC input for Level meter	
39	PBO/AD4	I	DC input for Level meter	
40	PB1/AD5	I	Over load Det.	
41	PB2/AD6	I	Remote control B input	
42	PB3/AD7	I	RQ. I (Request input)	
43	$\overline{\text{EC}}$			
44	PX0/$\overline{\text{SC}}$	I	CK Cmmunication	
45	PX1/SO	0	SO	
46	PX2/SI	I	SI	
47	PAO	O	LED (MR&S) control output	
48	PA1	O	LED (TUNING) control output	
49	PA2	I	Key scan input	

No.	Pin Name	I/O	Description	Logic
50	PA3	I	Key scan input	
51	PF0	I	Key scan input	
52	PF1	I	Key scan input	
53	PF2	I	Key scan input	
54	PF3	I	Key scan input	
55	PE0	0	LED (CHARACT) control output	
56	PE1	O	LED (ENHANCE) control output	
57	PE2	O	LED (DELAY) control output	
58	PE3	O	LED (EFFECT) control output	
59	PY0	O	RQ. O (Communication between PDG073A)	
60	PY1/$\overline{\text{PWM}}$	O	MUTE for TUNER	
61	PY2/WP	I	Not used	
62	PY3/REM	I	Remote control input	
63	PD0	I	Rotary Encoder IN1	
64	PD1	I	Rotary Encoder IN2	
65	PD2	I	Tuned	
66	PD3	I	Stereo	
67	PC0	O	DATA. T, 9K/$\overline{\text{10K}}$ Tuner control OSD DATA	
68	PC1	O	CK. T, J/$\overline{\text{EX}}$ OSD CK	
69	PC2	O	CS. T	
70	PC3	O	OSD CS	
71	Vss	–	GND	
72	XTAL	O	MAIN CLK output/Connected to ceramic oscillator (4.19M)	
73	NC	–	NC	
74	EXTAL	I	MAIN CLK input/Connected to ceramic oscillator (4.19M)	

No.	Pin Name	I/O	Description	Logic
75	VREF	–	Reference voltage input/ Connected to VDD	
76	VFDP	–	Power supply for FL	
77	S0	O	Segment output	
78	S1	O	Segment output	
79	S2	O	Segment output	
80	S3	O	Segment output	

■ IC1851 (PDG073A) : SYSTEM CONTROL μ−COM

• Pin Function

No.	Pin Name	I/O	Description	ACT
1	PA1	O	CLOCK for CXD1067	H
2	PA0	O	VIDEO control (VON2)	
3	PB7	O	VIDEO control (C2)	
4	PB6	O	VIDEO control (VON1)	
5	PB5	O	VIDEO control (C1)	
6	PB4	O	Serial IC CLOCK	L
7	PB3	O	Serial IC DATA	
8	PB2	O	Strobe for MAIN TC9163.9164	H
9	PB1	O	Strobe for SUB TC9163.9164	H
10	PB0	O	Strobe for VR TC9154.9176	H
11	PC7	O	Multiroom ON (H) /OFF (L)	
12	PC6	O	VR LED "H" = ON	H
13	PC5	O	VR UP	H
14	PC4	O	VR DN	H
15	PC3	O	Not used (L)	
16	PC2	O	Not used (L)	
17	PC1	O	Not used (L)	
18	PC0	O	DOLBY	
19	PD7	O	MUTE	
20	PD6	O	CENTER CONTROL B	
21	PD5	O	CENTER CONTROL A	
22	PD4	O	GAIN CONTROL B	
23	PD3	O	GAIN CONTROL A	L
24	PD2	O	REQ OUT (Comunication between μ−COM)	L
25	PD1	O	CLOCK OUT (Comunication between μ−COM)	
26	PD0	O	DATA OUT (Comunication between μ−COM)	
27	PH3	O	DSP CTL D−REDY	
28	PH2	O	DSP CTL RESET. D DSP	
29	PH1	O	DSP CTL RQ	
30	PH0	O	Front μ−COM RESET output	L
31	MP	I	Connected to GND	−
32	$\overline{\mathrm{RST}}$	I/O	RESET input	L
33	Vss	−	Connected to GND	−
34	XTAL	O	Connected to ceramic oscillator (8MHz).	−
35	EXTAL	I	Connected to ceramic oscillator (8MHz).	−
36	$\overline{\mathrm{CSO}}$	I	Not used (Pull-down)	−
37	S10	I	Not used (Pull-down)	−
38	S00	O	DSP CTL DATA	
39	$\overline{\mathrm{SCKO}}$	O	DSP CTL CLOCK	L
40	PF7	I	DSP CTL $\overline{\mathrm{AK}}$	"L"
41	PF6	I	REQ IN (Comunication between μ−COM)	L
42	PF5	I	DATA IN (Comunication between μ−COM)	
43	PF4	I	Not used (Pull-down)	−
44	PF3	I	Not used (Pull-down)	−
45	PF2	I	Not used (Pull-down)	−
46	PF1	I	Not used (Pull-down)	−
47	PF0	I	Not used (Pull-down)	−
48	AN3	I	Not used (Pull-down)	−
49	AN2	I	Not used (Pull-down)	−
50	AN1	I	Not used (Pull-down)	−
51	AN0	I	VR position detector input	−
52	AVss	−	GND for A/D	−
53	AV$_{\mathrm{REF}}$	−	Reference voltage for A/D	−
54	AV$_{\mathrm{DD}}$	−	Power supply for A/D	−

No.	Pin Name	I/O	Description	ACT
55	PG7	I	Not used (Pull-down)	–
56	PG6	I	Not used (Pull-down)	–
57	PG5	I	Not used (Pull-down)	–
58	PG4	I	Not used (Pull-down)	–
59	PG3	I	Not used (Pull-down)	–
60	PG2	I	Not used (Pull-down)	–
61	PG1	I	Not used (Pull-down)	–
62	PG0	I	Not used (Pull-down)	–
63	PE7	O	Speaker (REAR) relay control	H
64	PE6	O	Speaker A relay control	H
65	PE5	O	Speaker B relay control	H
66	PE4	O	Speaker (CENTER) relay control	H
67	PE3	O	Speaker (SUB) relay control	H
68	PE2	O	PWM output for enhancer	H
69	PE1/$\overline{\text{INT2}}$	I	Not used (Pulldown)	–
70	PE0/$\overline{\text{INT0}}$	I	AC 50/60Hz input	L
71	NMI	I	Not usewd (Pulldown)	–
72	V_{DD}	–	Power supply	–
73	Vss	–	GND	–
74	NC	–	Connected to V_{DD}	–
75	PA7	O	AC Relay control	H
76	PA6	O	SR OUT	L
77	PA5	O	MAIN MUTE	H
78	PA4	O	SUB MUTE	H
79	PA3	O	Strobe for CXP1067	H
80	PA2	O	DATA for CXP1067	

7. REMOTE CONTROL UNIT [CU – VSX031 (AXD1223)]
[CU – VSX023 (AXD1207)]

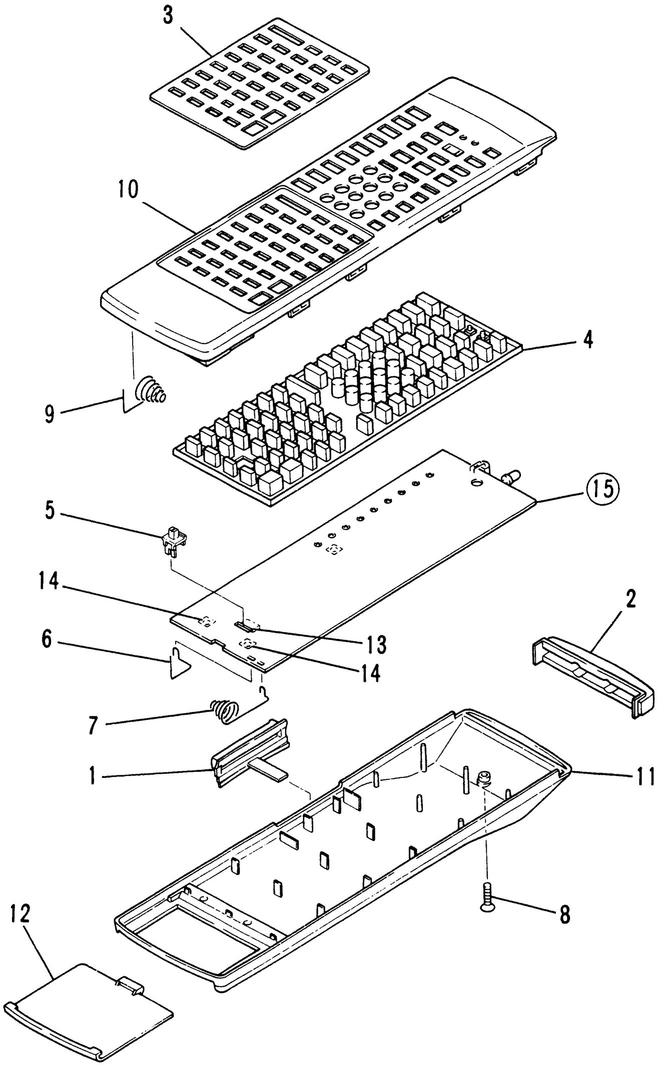
7.1 EXPLODED VIEW AND PARTS LIST

NOTES:

- *Parts without part number cannot be supplied.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

Parts list of Exterior

Mark	No.	Description	Parts No.
	1	MODE CHECK KEY	AZA1335
	2	FILTER	AZA1336
	3	PLATE (AXD1223)	AZA1346
	3	PLATE (AXD1207)	AZA1345
	4	RUBBER SHEET (AXD1223)	AZA1348
	4	RUBBER SHEET (AXD1207)	AZA1347
	5	KNOB	AZA1349
	6	TERMINAL (+)	AZB1327
	7	TERMINAL (−)	AZB1328
	8	SCREW	AZB1329
	9	TERMINAL (C)	AZB1330
	10	CASE (A)	AZN2089
	11	CASE (B)	AZN2090
	12	BATTERY COVER	AZN2091
	13	SLIDE SW	AZS1117
	14	TACT SW	AZS1118
	15	P. C. BOARD	



7.2 ELECTRICAL PARTS LIST

NOTES:

- *Parts without part number cannot be supplied.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).
560Ω 56 × 10^1 561........................RD1/4PS 5 6 1 J
47kΩ 47 × 10^3 473........................RD1/4PS 4 7 3 J
0.5Ω 0R5...RN2H 0 R 5 K
1Ω 010...RS1P 0 1 0 K

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).
5.62kΩ 562 × 10^1 5621........................RN1/4SR 5 6 2 1 F

Mark	No.	Description	Parts No.
SEMICONDUCTORS			
	IC1	μ−COM	ACM001−017
	IC2	IC	AZC1564
	IC3	LOGIC IC	MC74HC138F
	Q1, 2	CHIP TRANSISTOR	2SC3052E
	Q3, 4	POWER TRANSFORMER	2SD1622
	D1	DIODE	DWA010−TE
	D10−17	LED	AZC1573
	D2−6	DIODE	DWA010−TE
	D7	LED	SLR−938C
	D8	DIODE	SPS−503C−3
	D9	LED	AZC1573
CAPACITORS			
	C1, 2	CERAMIC CAPACITOR	CCDSL330J50
	C3	CERAMIC CAPACITOR	CCDSL221J50
	C4	CERAMIC CAPACITOR	CKDYX104M25
	C5	ELECTROLYTIC CAPACITOR	CEAS470M10
	C6	CERAMIC CAPACITOR	CKDYB103K50
	C7	ELECTROLYTIC CAPACITOR	CEAS221M10
	C8	ELECTROLYTIC CAPACITOR	CEAS4R7M50
RESISTORS			
	R7, 8	CARBON FILM RESISTOR	RD1/4PMFL1R5J
		Other resistors	RD1/8PM□□□J
OTHERS			
	X1	RESONATOR	AZC1570

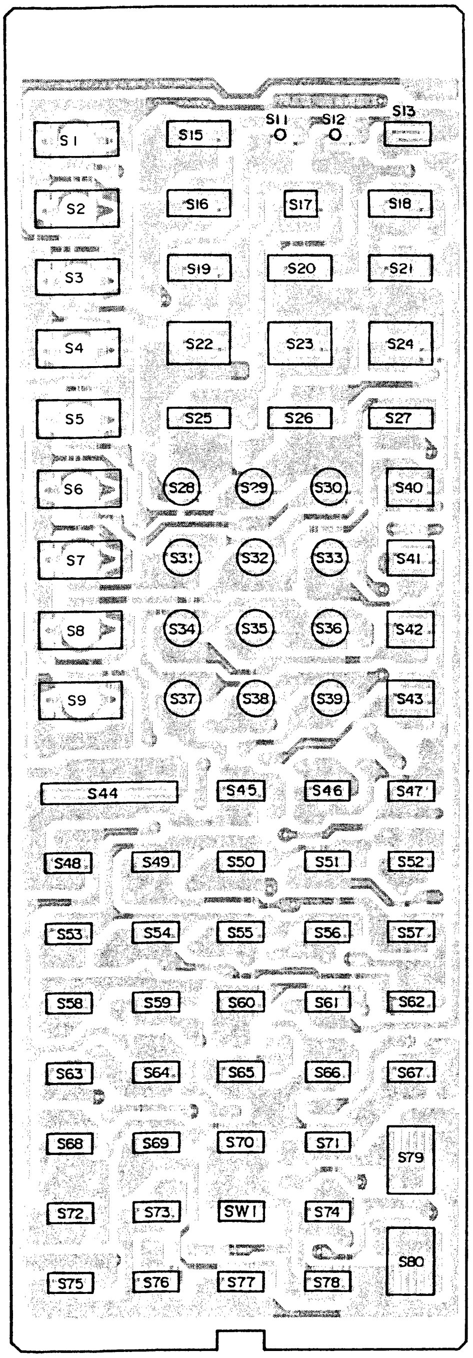
7.3 P. C. BOARD PATTERN

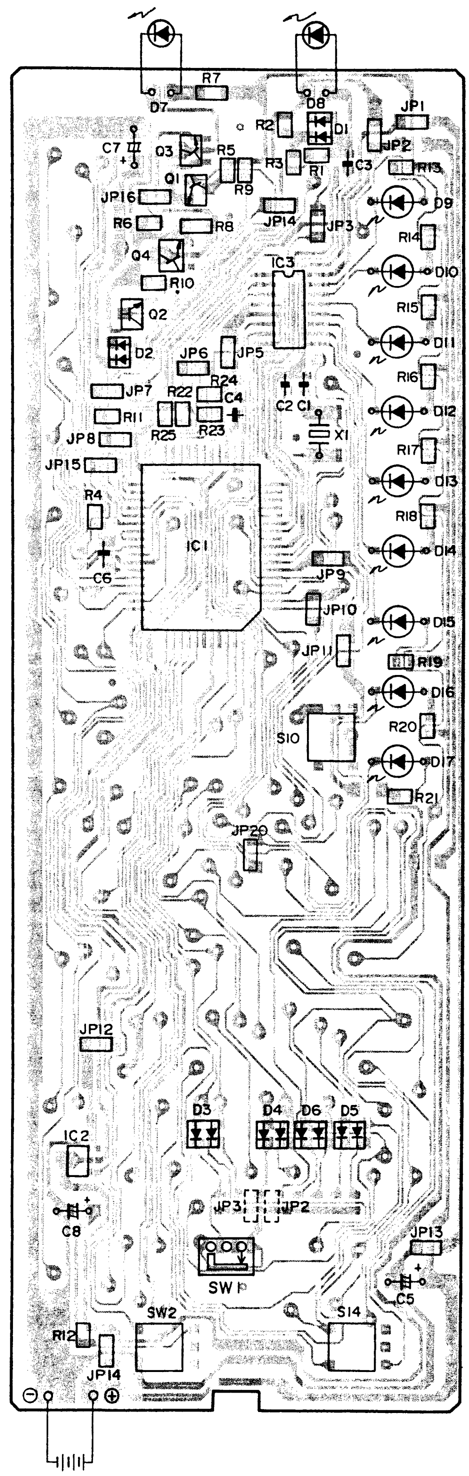
: Indicates a chip resistor.

: Indicates a chip capacitor.

: Indicates a chip transistor.

: Indicates a chip diode.


S1
S2
S3
S4
S5
S6
S7
S8
S9
S11
S12
S13
S15
S16
S17
S18
S19
S20
S21
S22
S23
S24
S25
S26
S27
S28
S29
S30
S40
S31
S32
S33
S41
S34
S35
S36
S42
S37
S38
S39
S43
S44
S45
S46
S47
S48
S49
S50
S51
S52
S53
S54
S55
S56
S57
S58
S59
S60
S61
S62
S63
S64
S65
S66
S67
S68
S69
S70
S71
S79
S72
S73
SW1
S74
S80
S75
S76
S77
S78


R7
D7
D8
R2
D1
JP1
C7
Q3
R5
R3
R1
C3
JP2
R13
Q1
R9
JP16
JP14
JP3
D9
R6
R8
R14
Q4
IC3
D10
R10
R15
Q2
D11
D2
JP6
JP5
R16
JP7
R22
R24
C4
C2
C1
D12
R11
R25
R23
X1
JP8
R17
JP15
D13
R4
R18
IC1
D14
C6
JP9
JP10
D15
JP11
R19
D16
R20
S10
D17
R21
JP20
JP12
D3
D4
D6
D5
IC2
JP3
JP2
C8
JP13
SW1
C5
SW2
S14
R12
JP14
⊖
⊕

7.4 SCHEMATIC DIAGRAM

NOTE)

JP2 : The terminal for switching Fc (carrier frequency of the fixed code). This terminal is set at OPEN (Fc = 40kHz) when delivered. If a product of another manufacturer accidentally receives the PIONEER code, short the terminal so that Fc will be 36.7kHz. (In which case, the learned code and preset code do not change.)

JP3 : This remote control saves the learned data, timing data in ROM and other data (such as code data) in RAM. ROM already contains the timing data for other primary manufacturers. JP3 is a terminal for switching whether or not to use that pre-loaded timing data during learning.
This terminal is set at OPEN when delivered. If "data is learned but the product does not operate," there is the rare possibility that learned timing data is affected by the timing data for another primary manufacturer in ROM, causing the receiving product to be deactivated. In such a case, short JP3 to clear all the learned data and restart data learning, so that the data precision is increased. (In which case, the learned data in RAM is shared as is.)

NOTE:

-▭- : Indicates a chipresistor.

╪ : Indicates a chipcapacitor.

⊡ : Indicates a chiptransistor.

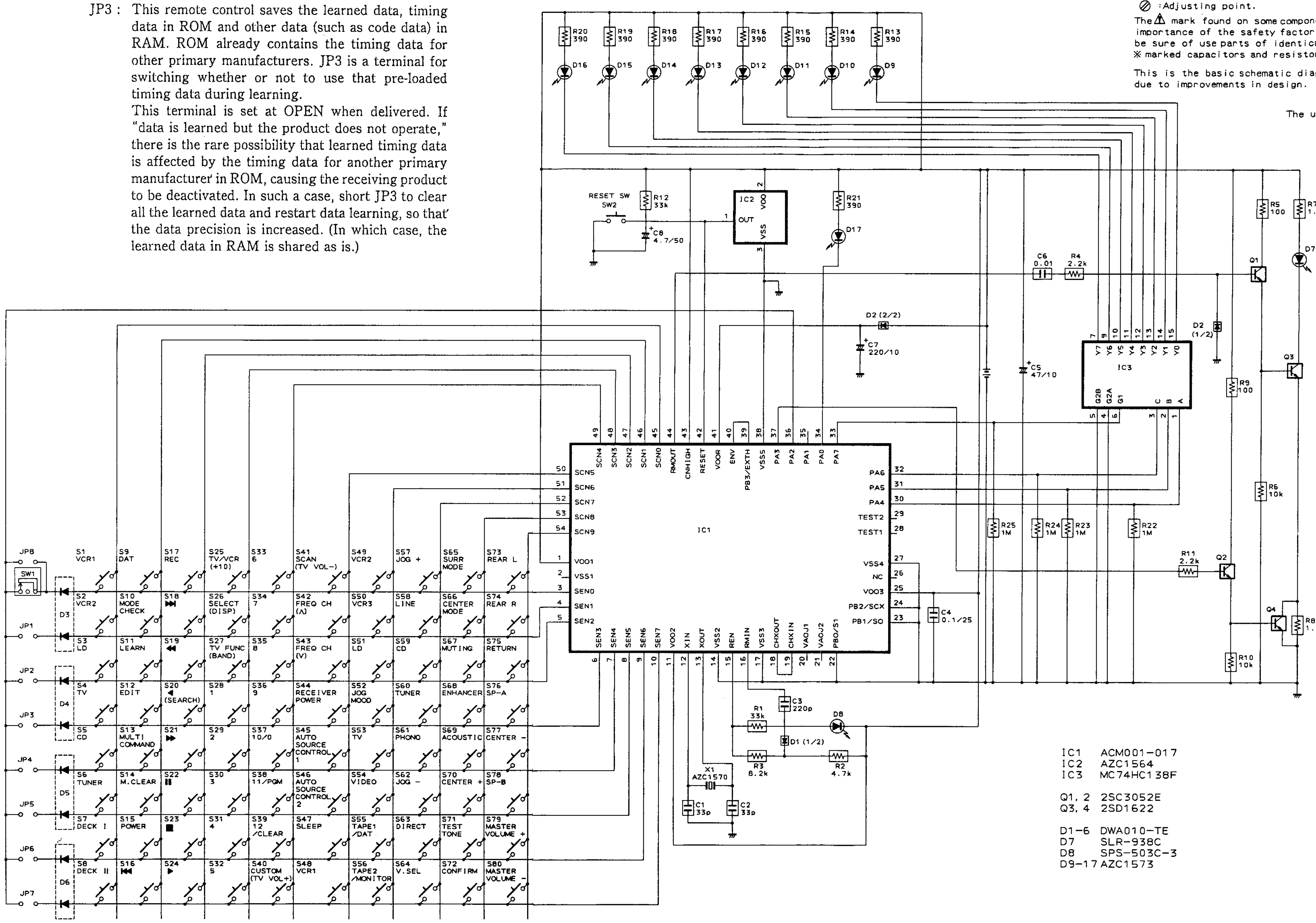
⊡ : Indicates a chipdiode.

1. RESISTORS:
Indicated in Ω, 1/4W, 1/8W, ± 5% tolerance unless otherwise noted k: kΩ, M: MΩ, (F): ±1%, (G): ± 2%, (K): ± 10%, (M): ± 20% tolerance.

2. CAPACITORS:
Indicated in capacity (μF)/voltage (V) unless otherwise noed p: pF
Indication without voltage is 50V except electrolytic capacitor.

3. OTHERS:
➡ : Signal route.
⊘ : Adjusting point.
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure of use parts of identical designation.
※ marked capacitors and resistors have parts numbers.

This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.


R20 390
R19 390
R18 390
R17 390
R16 390
R15 390
R14 390
R13 390
D16
D15
D14
D13
D12
D11
D10
D9
RESET SW SW2
R12 33k
C8 4.7/50
IC2
VDD
OUT
VSS
R21 390
D17
C6 0.01
R4 2.2k
D2 (2/2)
C7 220/10
C5 47/10
D2 (1/2)
IC3
Y7 Y6 Y5 Y4 Y3 Y2 Y1 Y0
G2B G2A G1 C B A
R5 100
R7 1.5
D7
Q1
Q3
R9 100
R6 10k
Q2
Q4
R8 1.5
R10 10k
R11 2.2k
R25 1M
R24 1M
R23 1M
R22 1M
IC1
SCN4 SCN3 SCN2 SCN1 SCN0 RMOUT CNHIGH RESET VDDR ENV PB3/EXTH VSS5 PA3 PA2 PA1 PA0 PA7
SCN5 SCN6 SCN7 SCN8 SCN9 VDD1 VSS1 SEN0 SEN1 SEN2
PA6 PA5 PA4 TEST2 TEST1 VSS4 NC VDD3 PB2/SCX PB1/SO
SEN3 SEN4 SEN5 SEN6 SEN7 VDD2 XIN XOUT VSS2 REN RMIN VSS3 CHXOUT CHXIN VAOJ1 VAOJ2 PB0/SI
C4 0.1/25
C3 220p
R1 33k
D8
D1 (1/2)
R3 8.2k
R2 4.7k
X1 AZC1570
C1 33p
C2 33p
JP8
SW1
JP1
JP2
JP3
JP4
JP5
JP6
JP7
D3
D4
D5
D6
S1 VCR1
S2 VCR2
S3 LD
S4 TV
S5 CD
S6 TUNER
S7 DECK I
S8 DECK II
S9 DAT
S10 MODE CHECK
S11 LEARN
S12 EDIT
S13 MULTI COMMAND
S14 M.CLEAR
S15 POWER
S16 ⏮
S17 REC
S18 ⏭
S19 ◀◀
S20 ◀ (SEARCH)
S21 ▶▶
S22 ❚❚
S23 ■
S24 ▶
S25 TV/VCR (+10)
S26 SELECT (DISP)
S27 TV FUNC (BAND)
S28 1
S29 2
S30 3
S31 4
S32 5
S33 6
S34 7
S35 8
S36 9
S37 10/0
S38 11/PGM
S39 12 /CLEAR
S40 CUSTOM (TV VOL+)
S41 SCAN (TV VOL−)
S42 FREQ CH (∧)
S43 FREQ CH (V)
S44 RECEIVER POWER
S45 AUTO SOURCE CONTROL 1
S46 AUTO SOURCE CONTROL 2
S47 SLEEP
S48 VCR1
S49 VCR2
S50 VCR3
S51 LD
S52 JOG MODE
S53 TV
S54 VIDEO
S55 TAPE1 /DAT
S56 TAPE2 /MONITOR
S57 JOG +
S58 LINE
S59 CD
S60 TUNER
S61 PHONO
S62 JOG −
S63 DIRECT
S64 V.SEL
S65 SURR MODE
S66 CENTER MODE
S67 MUTING
S68 ENHANCER
S69 ACOUSTIC
S70 CENTER +
S71 TEST TONE
S72 CONFIRM
S73 REAR L
S74 REAR R
S75 RETURN
S76 SP-A
S77 CENTER −
S78 SP-B
S79 MASTER VOLUME +
S80 MASTER VOLUME −

IC1 ACM001-017
IC2 AZC1564
IC3 MC74HC138F

Q1, 2 2SC3052E
Q3, 4 2SD1622

D1-6 DWA010-TE
D7 SLR-938C
D8 SPS-503C-3
D9-17 AZC1573

The underline indicates the switch position
SW1: CENT.·BAL./REAR·REAR BAL.
SW2: RESET
S1: VCR1
S2: VCR2
S3: LD
S4: TV
S5: CD
S6: TUNER
S7: DECK I
S8: DECK II
S9: DAT
S10: MODE CHECK
S11: LEARN
S12: EDIT
S13: MULTI COMMAND
S14: M.CLEAR
S15: POWER
S16: ⏮
S17: REC
S18: ⏭
S19: ◀◀
S20: ◀ (SEARCH)
S21: ▶▶
S22: ❚❚
S23: ■
S24: ▶
S25: TV/VCR (+10)
S26: SELECT (DISP)
S27: TV FUNC (BAND)
S28: 1
S29: 2
S30: 3
S31: 4
S32: 5
S33: 6
S34: 7
S35: 8
S36: 9
S37: 10/0
S38: 11/PGM
S39: 12/CLEAR
S40: CUSTOM (TV VOL+)
S41: SCAN (TV VOL−)
S42: FREQ CH (∧)
S43: FREQ CH (V)
S44: RECEIVER POWER
S45: AUTO SOURCE CONTROL 1
S46: AUTO SOURCE CONTROL 2
S47: SLEEP
S48: VCR1
S49: VCR2
S50: VCR3
S51: LD
S52: JOG MODE
S53: TV
S54: VIDEO
S55: TAPE1/DAT
S56: TAPE2/MONITOR
S57: JOG +
S58: LINE
S59: CD
S60: TUNER
S61: PHONO
S62: JOG −
S63: DIRECT
S64: V.SEL
S65: SURR MODE
S66: CENTER MODE
S67: MUTING
S68: ENHANCER
S69: ACOUSTIC
S70: CENTER +
S71: TEST TONE
S72: CONFIRM
S73: REAR L
S74: REAR R
S75: RETURN
S76: SP-A
S77: CENTER −
S78: SP-B
S79: MASTER VOLUME +
S80: MASTER VOLUME −

8. FOR VSX−9900S/KUC AND SD TYPES

CONTRAST OF MISCELLANEOUS PARTS

NOTES:
- *Parts without part number cannot be supplied.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

The VSX−9900S/KUC and SD types are the same as the VSX−95/KUC type with the exception of the following sections.

Mark	Symbol & Description	Part No.			Remarks
		VSX−95/ KUC type	VSX−9900S/ KUC type	VSX−9900S/ SD type	
◉	MAIN FUNCTION assembly	AWZ3673	AWZ3560	AWZ3560	
◉	SUB FUNCTION assembly	AWZ3674	AWZ3561	AWZ3561	
◉	VIDEO FUNCTION assembly	AWZ3675	AWZ3562	AWZ3562	
◉	ENHANCER assembly	AWZ3676	AWZ3563	AWZ3563	
◉	OSD assembly	AWZ3634	……………	……………	
	TERMINAL assembly	……………	Non Supply	Non Supply	*
⚠	S2 Voltage selector switch (AC110V−127V/220V−240V)	……………	……………	AKX1004	
⚠	S3 Slide switch (9k/10k)	……………	……………	ASH−004	
⚠	S4 Voltage selector switch (AC110V, 120−127V, 220V, 240V)	……………	……………	AKX−507	
⚠	T Power transformer	ATS1360	ATS1360	ATS1361	
⚠	FU1 Fuse (8A/125V)	AEK1035	AEK1035	……………	
⚠	FU1 Fuse (5A/125V)	……………	……………	AEK−126	
⚠	FU2 Fuse (5A/125V)	……………	……………	AEK−126	
⚠	FU3, FU4 Fuse (6.3A/125V)	AEK−309	AEK−309	AEK−127	
⚠	AC Power cord	ADG1072	ADG1058	ADG1051	
⚠	Fuse holder	……………	……………	AKR−038	
	AC cord spacer	ANG1153	……………	……………	
	Strain relief	……………	AEP−113	AEC−882	
	FL filter	AAK2169	AAK2168	AAK2168	
	Leg assembly	AMR1158	……………	……………	
	Front panel	ANB1480	ANB1479	ANB1479	
	Bonnet case	ANE1302	AZN1804	AZN1804	
	Wood collar	AEC1165	……………	……………	
	Screw	ABA1086	……………	……………	
	Screw	VBZ40P160FZK	……………	……………	
	Screw	……………	……………	VMZ26P040FZK	

* : TERMINAL assembly of VSX9900S is in same location as OSD assembly of VSX−95.

Mark	Symbol & Description	Part No.			Remarks
		VSX−95/ KUC type	VSX−9900S/ KUC type	VSX−9900S/ SD type	
	Top pad	AHA1033	……………	……………	
	Bottom pad	AHA1034	……………	……………	
	Front, rear pad	……………	AHA1164	AHA1164	
	Packing case	AHD2122	AHD2120	AHD2121	
	Operating instructions (English)	ARB1333	ARB1332	ARB1332	
	Remote control unit (CU−VSX031)	AXD1223	……………	……………	
	Remote control unit (CU−VSX023)	……………	AXD1207	AXD1207	

◉ MAIN FUNCTION assembly (AWZ3560)

The MAIN FUNCTION assembly (AWZ3560) is the same as the MAIN FUNCTION assembly (AWZ3673) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ3673	AWZ3560	
	CN Pin jack 8P	AKB1182	AKB1127	

◉ SUB FUNCTION assembly (AWZ3561)

The SUB FUNCTION assembly (AWZ3561) is the same as the SUB FUNCTION assembly (AWZ3674) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ3674	AWZ3561	
	CN Pin jack 6P	AKB1178	AKB1140	
	CN Pin jack 8P	AKB1179	AKB1144	

◉ VIDEO FUNCTION assembly (AWZ3562)

The VIDEO FUNCTION assembly (AWZ3562) is the same as the VIDEO FUNCTION assembly (AWZ3675) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ3675	AWZ3562	
	CN Pin jack 3P	AKB1170	AKB1143	
	CN Pin jack 2P	AKB1173	AKB1118	

◉ ENHANCER assembly (AWZ3563)

The ENHANCER assembly (AWZ3563) is the same as the ENHANCER assembly (AWZ3676) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ3676	AWZ3563	
	CN Pin jack 3P	AKB1170	....	

TERMINAL assembly

NOTES:

- *Parts without part number cannot be supplied.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

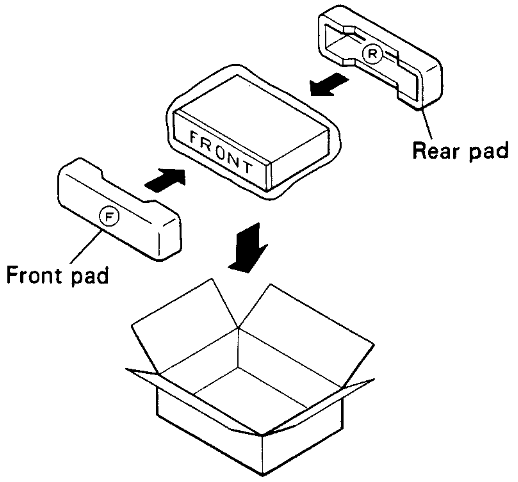
560Ω 56 × 10^1 561.......................... RD1/4PS $\boxed{5}\ \boxed{6}\ \boxed{1}$ J
47kΩ 47 × 10^3 473.......................... RD1/4PS $\boxed{4}\ \boxed{7}\ \boxed{3}$ J
0.5Ω 0R5... RN2H $\boxed{0}\ \boxed{R}\ \boxed{5}$ K
1Ω 010... RS1P $\boxed{0}\ \boxed{1}\ \boxed{0}$ K

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62kΩ 562 × 10^1 5621....................... RN1/4SR $\boxed{5}\ \boxed{6}\ \boxed{2}\ \boxed{1}$ F

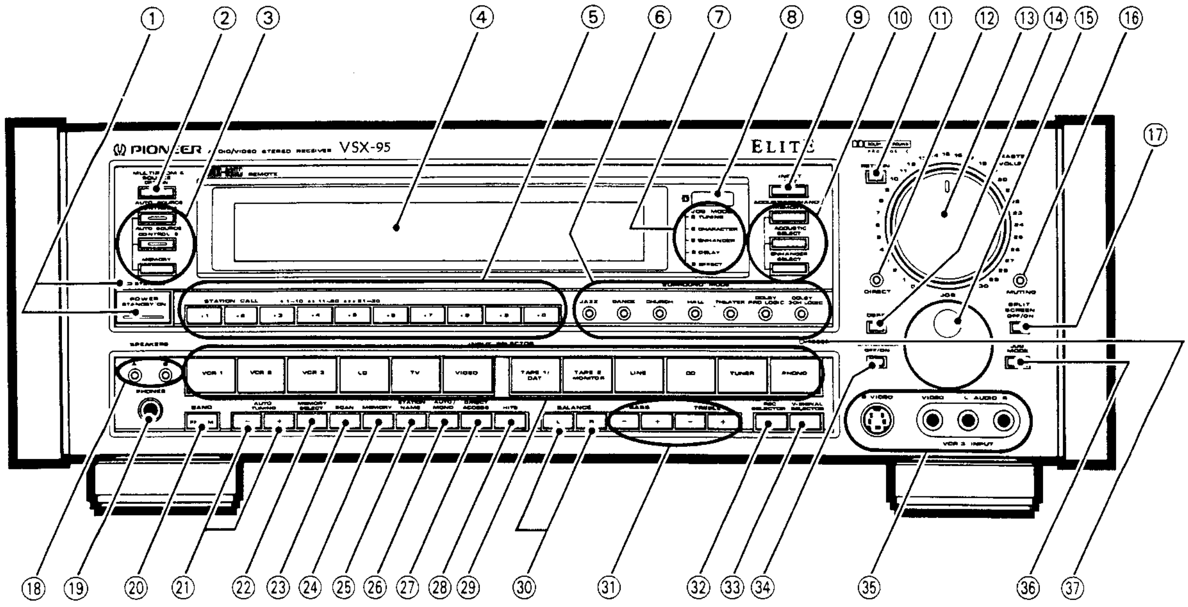
Mark	No.	Description	Parts No.
	CAPACITORS		
	C751−754	CERAMIC CAPACITOR	CKCYB102K50
	RESISTORS		
		All resistors	RD1/8PM474J
	OTHERS		
		PIN JACK 1P	AKB1139
		PIN JACK 2P	AKB1142
	CN	PIN JACK 4P	AKB1181

• PACKING (VSX−9900S)



9. PANEL FACILITIES

FRONT PANEL FACILITIES



① POWER STANDBY/ON switch/indicator

This is the switch for electric power.

ON .... When set to the ON position, power is supplied and the unit becomes operational.

STANDBY .. When set to STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness.

The STANDBY indicator lights when the power is STANDBY, and goes out during ON.

② MULTI ROOM & SOURCE button

Use in combination with the separately sold MR-100 Multi-Room remote control unit.

When this button is on, the source selected with the INPUT SELECTOR at that time is set to the Sub room function. The selected sub-function's sound is output through SUB ROOM SPEAKERS, and the video signal is output through the MULTI-ROOM & SOURCE VIDEO OUT jack. If you install speaker systems connected to the MULTI-ROOM SPEAKERS terminals in a different room, you can enjoy different sources in two different rooms with a single main unit.

③ AUTO SOURCE CONTROL, MEMORY buttons

AUTO SOURCE CONTROL 1, 2:

These buttons are for memorizing and recalling your current settings. Both 1 and 2 can be used to memorize settings. If you connect another component, such as a CD player, to the CONTROL OUT jack on the rear panel, the signals to switch power on and start play are also transmitted.

MEMORY:

Use when memorizing settings to an AUTO SOURCE CONTROL button.

④ Display section

⑤ STATION CALL (RANDOM 30 CH) buttons

- These buttons are used to preset and recall desired broadcasting stations. You can also preset AUTO/MONO button settings.

Station call operation example:
If you press the $\boxed{*2}$ button:

- Once — station 2 is selected.
- Twice — station 12 is selected.
- Three times — station 22 is selected.

NOTE:
Pressing the STATION CALL buttons when a component other than TUNER is selected causes the INPUT SELECTOR setting to switch to TUNER.

- They are also used when performing direct access tuning.

⑥ SURROUND MODE buttons

⑦ JOG MODE indicators

The indicator for the mode that can currently be operated by the JOG dial lights. If it is not the mode you want to operate, switch to the desired mode with the JOG MODE button (㊱).

⑧ Remote sensor window

⑨ INPUT ATT button

Use this when there is distortion due to excessively high input signal level. When this is switched ON, − 10 dB attenuator operates, and the INPUT ATT indicator in the display section lights.

⑩ ACOUSTIC/ENHANCER MEMORY, SELECT buttons

ACOUSTIC/ENHANCER MEMORY:

Use to operate acoustic memory and enhancer memory.

ACOUSTIC SELECT:

Use this to store desired sound quality settings in memory. Also use it to recall memorized sound quality settings from memory. For further details concerning memory operation.

ENHANCER SELECT:

Use this to store a desired enhancer effect in memory, and to recall a desired enhancer effect. For further details concerning memory operation.

When the enhancer has been memorized, then the enhancer will be automatically switched ON when this button is pressed.

FRONT PANEL FACILITIES

⑪ RETURN button

Pressing this button returns the receiver to the following settings, the sound level being controlled by MASTER VOLUME control knob.

• TAPE 2 MONITOR	OFF
• SURROUND MODE	OFF
• SPEAKERS A	ON
• MUTING	OFF
• BALANCE	CENTER
• INPUT SELECTOR	TUNER
• STATION CALL	1 CH*

* When a station is not memorized in 1 CH, station search will automatically proceed from the frequency displayed.

⑫ DIRECT button

Press this to listen to source sound without passing the audio signal through sound quality and balance adjusting circuitry.

The surround mode, and rear and center speakers are automatically switched off.

⑬ MASTER VOLUME control

Use to adjust the sound volume from the front, center and rear speakers. When you adjust volume by remote control, the indicator on the knob flashes.

When the MULTI ROOM & SOURCE switch is ON, volume level in sub room cannot be adjusted with this knob. To adjust sub room volume, point the remote control at the MR-100 in the sub room and operate.

⑭ DSSS (Digital Simulated Stereo System) button

Operate this when inputting a monaural signal to enjoy a simulated stereo sound. You can use it when a monaural signal is input into both the left and right channels or when a monaural signal is input into only one of the channels.

⑮ JOG dial

This lets you control the following five functions.

(1) Tuner frequency (manual tuning).
(2) Selection of letters for station naming.
(3) Video enhancer effect level adjustment.
(4) Surround's delay time selection.
(5) Surround's total effect level adjustment.

You can select which function you want to control with the JOG MODE button ㊱, but the mode automatically switches when a function changes. For example, if you press the STATION NAME button, the JOG MODE automatically switches to the CHARACTER mode.

⑯ MUTING button

Press to temporarily cut off the sound volume. When pressed again, the sound will return to its previous level.

⑰ SPLIT SCREEN OFF/ON button

If you turn the ENHANCER OFF/ON button ON to add the video enhancer effect, and then turn this button on, the right side of the picture will have the enhancer effect added, and the left side will be without the enhancer effect. The signal that has passed through the enhancer is output through the TO MONITOR TV jacks and VCR OUT jacks.

A split screen picture is output from the TO MONITOR TV jacks. However, S jack output is not affected by enhancer or split screen.

⑱ SPEAKERS A, B buttons

These are ON/OFF buttons for the speaker systems. When switched ON, SPEAKERS indicators (A, B) in the display section light.

⑲ PHONES jack

Connect the plug on your headphones to this jack. To hear only through the headphones, set all SPEAKERS A and B buttons to the OFF position.

NOTE:

There are no ON/OFF switches for the rear and center speakers, so when you want to listen only on headphones, switch surround OFF. If you want to listen with surround ON, reduce rear and center volume levels using the remote control.

⑳ BAND button (FM/AM)

Use this to switch between FM and AM frequency band reception.

㉑ AUTO TUNING buttons (Down (–), Up (+))

+: Performs tuning in ascending frequency order.
–: Performs tuning in descending frequency order.

㉒ CUSTOM MEMORY SELECT button

Recall a genre name with this button.

㉓ SCAN button

Operates when the INPUT SELECTOR is set to TUNER. Station frequencies assigned to the STATION CALL buttons are tuned in, one after another, beginning with the current station no., for approximately 5 seconds each. Press the button again and reception of the station presently being received will continue. Station frequencies not assigned station numbers in the memory are skipped.

When you have selected a CUSTOM MEMORY genre, memory scan is performed on the stations in that genre.

㉔ MEMORY button

Pressing this button will result in the memorization of the current broadcast band, reception frequency, and FM AUTO/MONO mode.

This button is also used to input station names and custom memory operation.

㉕ STATION NAME button

This button is used when inputting station names.

㉖ AUTO/MONO button

Use to select the auto stereo mode or monaural mode when listening to FM broadcasts. The monaural mode has been selected when the FM MONO indicator in the display section is lit.

Auto stereo mode:

Normally, leave in this mode for reception. When a stereo broadcast is received, it will be automatically reproduced in stereo.

During stereo broadcast reception, the STEREO indicator in the display section lights.

Monaural mode:

When receiving distant stations or stations with weak broadcast signals, the input signal may be weak, thus resulting in increased noise during FM stereo broadcasts. In this event, setting the receiver to the monaural mode will reduce the noise; however, FM stereo broadcasts will be reproduced in monaural sound.

NOTE:

This button has no effect on reception of AM broadcasts.

㉗ DIRECT ACCESS button

When this button is pressed, the STATION CALL buttons function as 10-key number buttons for direct input of the desired reception frequency.

When frequencies that cannot be received are entered, the entered frequency value flashes, before reception of the previous frequency resumes.

㉘ HITS (Hyper Intelligent Tuning System) button

- If the HITS button is pressed at the currently displayed station frequency, the receiver searches up and down the frequency for the next station and stops at the first one it finds.
- If the HITS button is pressed during STATION NAME input the receiver performs a memory search in order of ascending station number for memorized stations whose names begin with the same letter as the station just input.
- If the HITS button is pressed during input of numbers for DIRECT ACCESS tuning, the receiver sets the remaining digits, which have not yet been input, to "0", searches for the corresponding frequencies, and stops on the first station it finds.

NOTE:

- *The system searches for stations within successive 1 MHz ranges for FM and 100 kHz ranges for AM. During DIRECT ACCESS tuning, it searches up and down for a station until it reaches the edges of the band. If no receivable station is found within the band range, the receiver returns to the state it was in before the HITS button was pressed.*
- *If the upper (or lower) frequency limit of the receiver is encountered during HITS operation, the receiver stops searching in that direction but continues to search in the other.*

㉙ INPUT SELECTOR buttons

- **Video input selector**

VCR 1: Press when performing playback on a first VCR unit.
VCR 2: Press when performing playback on a second VCR unit.
VCR 3: Press when performing playback on a third VCR unit.
LD: Press when performing playback on an LD player.
TV: Press to watch TV broadcasts from the TV tuner connected to the rear panel TV IN jacks.
VIDEO: Press when performing playback on a VCR connected to VIDEO IN jack.

- **Audio input selector**

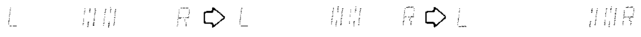
TAPE 1/DAT: Press when performing playback on a DAT or cassette deck.
TAPE 2 MONITOR: Press when performing playback on a second cassette deck.
LINE: Press when performing playback on an audio component connected to the LINE IN jacks.
CD: Press when playing compact discs on a CD player.
TUNER: Press when listening to radio broadcasts.
PHONO: Press when playing records on a turntable.

NOTE:

Because of the digital processing performed by this unit's Digital Signal Processor, high level input may result in distortion. This is particularly true when using a turntable with a high output cartridge. In this case, adjust the volume level with the PHONO LEVEL control on the rear panel so that it is the same as other inputs. If there is distortion due to excessively high input level from another component, use the INPUT ATT button to adjust input level.

㉚ BALANCE buttons

Use to adjust the sound volume balance between left and right speakers.
L: Press to decrease the sound on the right side.
R: Press to decrease the sound on the left side.
Press L and R together to bring the volume balance back to standard (Left = Right).
Example: When pressing and holding the "R" button.



㉛ Tone control buttons

BASS:

Use to adjust the low-frequency level. Press the + button to increase low-frequency level, and the − button to decrease it.
When both sides (+, −) of the BASS control are pressed simultaneously, the base response will be set to the flat (normal) condition. "BASS C" is shown in the display section.

TREBLE:

Use to adjust the high-frequency level. Press the + button to increase high-frequency level, and the − button to decrease it.
When both sides (+, −) of the TREBLE control are pressed simultaneously, the treble response will be set to the flat (normal) condition. "TREBLE C" is shown in the display section.
Adjust TONE CONTROL settings are indicated in the display section for several seconds.

㉜ REC SELECTOR button

You can select the component to be recorded from, on TAPE 1, VCR 1, VCR 2, without using the INPUT SELECTOR.
Each time you press the REC SELECTOR button, the components change in the following order.

→ TUNER → PHONO → VCR 1* → VCR 2* → VCR 3 → LD
CD ← LINE ← TAPE 1* ← VIDEO ← TV ←

When the REC SELECTOR has been through all the components once, REC SELECTOR switches off.

Recording between units marked with the "*" is possible in the following relationships.
From TAPE 1 on VCR 1 and 2, from VCR 1 on VCR 2 and TAPE 1, and from VCR 2 on VCR 1 and TAPE 1.
Do not select the component you wish to record on (for example, VCR 1), with the REC SELECTOR.

㉝ V (Video) SIGNAL SELECTOR button

Press this to switch VIDEO OUT (TO MONITOR TV) and VCR VIDEO OUT in the following sequence: (Audio does not change)

→ VCR 1 → VCR 2 → VCR 3 → LD → TV → VIDEO
OFF ←

Indications are only displayed during operation.
There is no picture when it is OFF.

㉞ ENHANCER OFF/ON button

Use to switch the video enhancer effect ON/OFF during playback or recording of a video.
When it is switched ON, adjust the degree of effect with the JOG dial ⑮.
If you turn ON the SPLIT SCREEN OFF/ON button ⑰, the right half of the screen shows a picture with the enhancer ON, and the left half of the screen shows a picture with the enhancer OFF.
The enhancer has no effect on S jack and MULTI-ROOM & SOURCE VIDEO OUT jack video signals.

㉟ VCR 3 INPUT jacks

Video components such as a VCR or TV camera, etc. can be connected here.

㊱ JOG MODE button

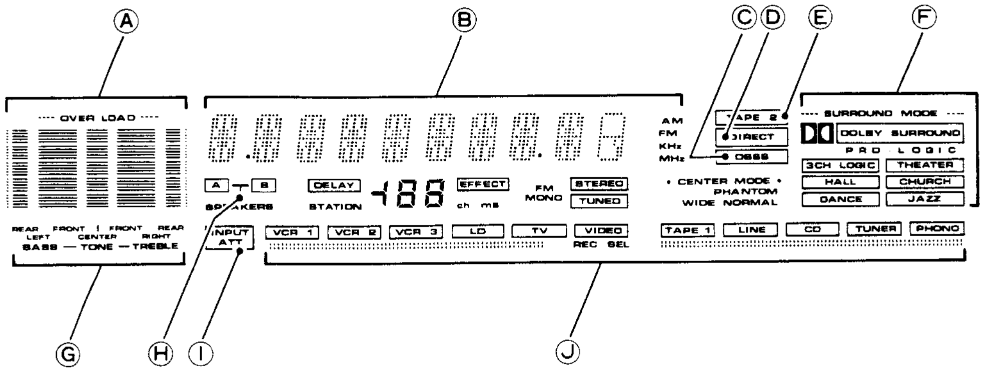
Use this to select the mode you want to control with the JOG dial ⑮.
The selected mode is indicated by the JOG MODE indicators ⑦.

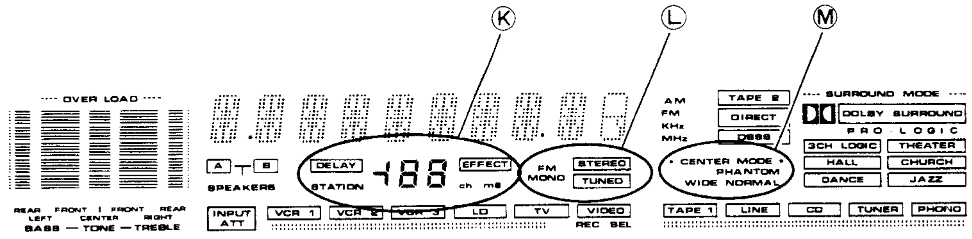
㊲ Reset button

Use this when normal operation becomes impossible because of external influences such as static electricity or lightning, or when operation is impossible even when operation buttons are pressed. Press this button to return to normal operating conditions.
If you press this button when the power is ON, the unit switches to POWER STANDBY, and the entire contents of the memory are erased.

FRONT PANEL FACILITIES

DISPLAY SECTION


Ⓐ
Ⓑ
Ⓒ Ⓓ
Ⓔ
Ⓕ
OVER LOAD
REAR LEFT
FRONT CENTER
FRONT RIGHT
REAR
BASS — TONE — TREBLE
A
B
SPEAKERS
DELAY
STATION
EFFECT
ch ms
FM MONO
STEREO
TUNED
AM
FM
KHz
MHz
TAPE 2
DIRECT
DSSS
• CENTER MODE •
PHANTOM
WIDE NORMAL
SURROUND MODE
DOLBY SURROUND
PRO LOGIC
3CH LOGIC
THEATER
HALL
CHURCH
DANCE
JAZZ
INPUT ATT
VCR 1
VCR 2
VCR 3
LD
TV
VIDEO
REC SEL
TAPE 1
LINE
CD
TUNER
PHONO
Ⓖ
Ⓗ
Ⓘ
Ⓙ


Ⓚ
Ⓛ
Ⓜ
OVER LOAD
REAR LEFT
FRONT CENTER
FRONT RIGHT
REAR
BASS — TONE — TREBLE
A
B
SPEAKERS
DELAY
STATION
EFFECT
ch ms
FM MONO
STEREO
TUNED
AM
FM
KHz
MHz
TAPE 2
DIRECT
DSSS
• CENTER MODE •
PHANTOM
WIDE NORMAL
SURROUND MODE
DOLBY SURROUND
PRO LOGIC
3CH LOGIC
THEATER
HALL
CHURCH
DANCE
JAZZ
INPUT ATT
VCR 1
VCR 2
VCR 3
LD
TV
VIDEO
REC SEL
TAPE 1
LINE
CD
TUNER
PHONO

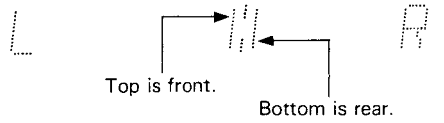
Ⓐ Level/Tone meters

The level meter is usually displayed. If the input level is too high, the display switches, and the OVER LOAD indicator lights.

During Tone control operation, the display switches accordingly.

Ⓑ Character display/Balance meter

- Character display indicates such information as function, received frequency, station name, acoustic memory, and enhancer memory, etc.
- Front and rear left/right balance is indicated. This is displayed during balance adjustment, after which indications return to character display.



Top is front.

Bottom is rear.

Ⓒ DSSS indicator

Lights when the DSSS button is ON.

Ⓓ DIRECT indicator

This lights when the Direct mode is switched ON.

Ⓔ TAPE 2 indicator

Lights when the TAPE 2 MONITOR button is in the ON position.

Ⓕ SURROUND MODE indicators

These display the selected surround mode. When all indicators are out, surround is OFF.

Ⓖ Meter mode indicator

Indicates the display modes mentioned in Ⓐ.

Ⓗ SPEAKERS indicators

Shows which speaker system (or systems) are switched ON.

Ⓘ INPUT ATT indicator

This lights when the INPUT ATT button is switched ON.

Ⓙ REC selector indicators

- The recording source selected with the REC SELECTOR button is usually displayed.

Ⓚ Station call no./Delay time/Surround effect/Enhancer level display

- Usually, the STATION indicator and "ch" light to display the station call number.
- When adjusting surround delay time, the DELAY indicator and ms light to display delay time.
- When adjusting surround effect level, the EFFECT indicator lights, and effect level from 5 to 100 is displayed.
- When adjusting enhancer level, enhancer level from −50 to 50 is displayed.

Ⓛ Tuning indicators

FM MONO:	This lights when you select MONO with the AUTO/MONO button. When this indicator is lit, reception of FM stereo broadcasts is also monaural.
STEREO:	When the FM MONO indicator is out (auto stereo mode), this lights when receiving an FM stereo broadcast.
TUNED:	Lights when a station is tuned.

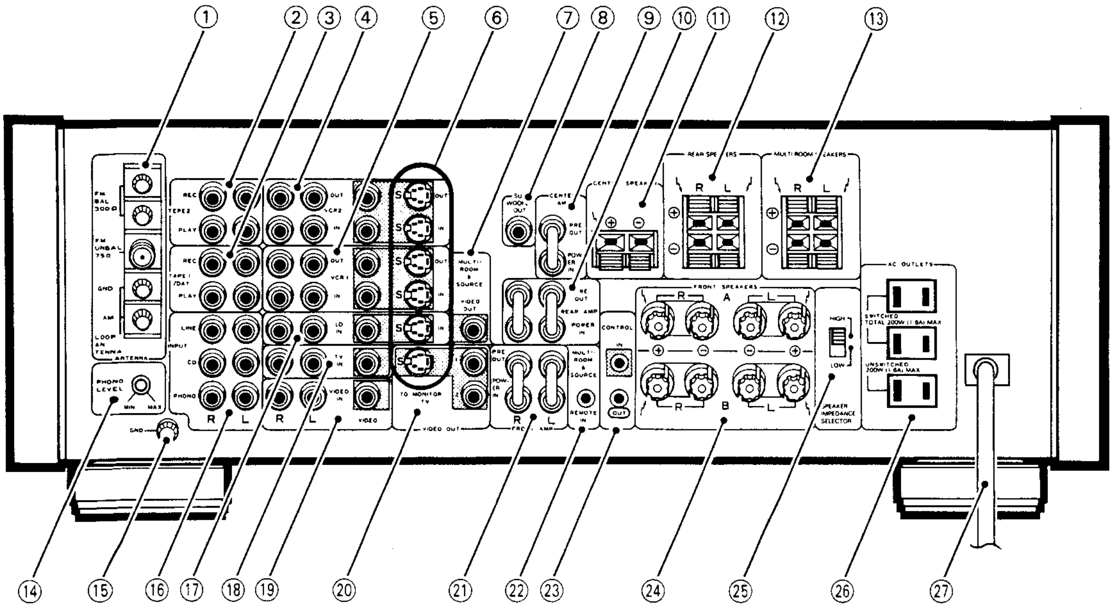
Ⓜ CENTER MODE indicators

These display the center mode (NORMAL, WIDE, PHANTOM) during THEATER, DOLBY PRO LOGIC SURROUND or DOLBY 3CH LOGIC operation.

Warning indication:

Display section indicators will flash to indicate that operation is not possible in a particular situation when you press a button. With Multi-Room & Source, the button itself flashes.

REAR PANEL FACILITIES



① FM/AM ANTENNA terminals

Use these antenna terminals for reception of normal FM and AM broadcasts.
Attach the accessory AM Loop and FM T-type antennas, here.

- For details regarding antenna connection, see the section "HINTS FOR BETTER RECEPTION".

② TAPE 2 jacks

Connect a second cassette deck to these jacks.

Connection for Recording
The tape recording jack (TAPE REC) on the cassette deck should be connected to the REC side of the TAPE 2 jack on the receiver with a pin plug connecting cord.

Connection for Playback
Connect the TAPE PLAY jack on the cassette deck to the PLAY side of the TAPE 2 jack on the receiver with a pin plug connecting cord.

③ TAPE 1/DAT jacks

Connect a DAT (digital audio tape deck) or your primary analog cassette deck to these jacks.

Connection for Recording
The tape recording jack (TAPE REC) on the cassette deck or DAT should be connected to the REC side of the TAPE 1/DAT jack on the receiver with a pin plug connecting cord.
Audio recording from TAPE 2 is not possible.

Connection for Playback
Connect the TAPE PLAY jack on the cassette deck or DAT to the PLAY side of the TAPE 1/DAT jack on the receiver with a pin plug connecting cord.

④ VCR 2 jacks

[VIDEO IN]
Connect to the VCR 2 VIDEO OUTPUT jacks.
[AUDIO IN (L, R)]
Connect to the VCR 2 AUDIO OUTPUT jacks.
[VIDEO OUT]
Connect to the VCR 2 VIDEO INPUT jacks.
[AUDIO OUT (L, R)]
Connect to the VCR 2 AUDIO INPUT jacks.

⑤ VCR 1 jacks

[VIDEO IN]
Connect to the VCR 1 VIDEO OUTPUT jacks.
[AUDIO IN (L, R)]
Connect to the VCR 1 AUDIO OUTPUT jacks.
[VIDEO OUT]
Connect to the VCR 1 VIDEO INPUT jacks.
[AUDIO OUT (L, R)]
Connect to the VCR 1 AUDIO INPUT jacks.

⑥ S (connector) video jacks

When used in conjunction with a VCR, Video disc player (LaserDisc player) or TV monitor equipped with S video jacks, connect to these jacks.

⑦ MULTI-ROOM & SOURCE VIDEO OUT jack

When using the Multi-Room & Source function, use this to connect the TV monitor for use in the Sub room.

⑧ SUB WOOFER OUT jack

If you want to boost the low frequencies, or you want to use the unit in a 3D system, connect to a sub woofer power amplifier.

REAR PANEL FACILITIES

⑨ CENTER AMP jacks

[POWER IN]
When a separate preamplifier is used for surround center speaker and this unit is used as a power amplifier, connect the preamplifier to this jack.

[PRE-OUT]
When a separate power amplifier is used to drive the surround center speaker, connect the power amplifier to this jack.

⑩ REAR AMP jacks

[PRE OUT]
When a separate power amplifier is used to drive the rear speakers, connect the power amplifier to these jacks.

[POWER IN]
When a separate preamplifier is used for rear speakers and this unit is used as a power amplifier, connect the preamplifier to these jacks.

⑪ CENTER SPEAKERS terminals

Connecting the surround center channel speaker system.

Speaker impedance:
Use a center speaker with a nominal impedance of 8 Ω.

NOTE:
Do not allow any of the code's conductors to protrude from the terminals or touch any other conductors. Malfunctioning or breakdown may occur when conductors come into contact with each other.

⑫ REAR SPEAKERS terminals

Connect the rear speakers to these terminals.

Speaker impedance
Connect speaker systems with a nominal impedance of between 8 and 16 Ω.

NOTE:
Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctioning or breakdowns may occur when conductors come into contact with each other.

⑬ MULTI-ROOM SPEAKERS terminals

Connect to the Multi-room speakers.

Speaker impedance
Connect speaker systems with a nominal impedance of between 8 and 16 Ω.

NOTE:
Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctioning or breakdowns may occur when conductors come into contact with each other.

⑭ PHONO LEVEL control

Use to adjust turntable input level. If distortion occurs when you are using a high-output cartridge, adjust the volume level until it's the same as another input, such as TUNER.

⑮ GND terminal

Connect the turntable ground lead to this terminal.

⑯ Audio INPUT jacks

PHONO	Connect to turntable.
CD	Connect to compact disc player.
LINE	Connect to the audio output jacks of an additional audio component.

⑰ LD jacks (input)

[VIDEO IN]
When watching the video image from an LD player or a VCR used for playback, connect its VIDEO OUTPUT jack here.

[AUDIO IN (L, R)]
When playing back the audio channel from an LD player (CD CDV LD player) or a VCR for playback, connect its AUDIO OUTPUT jacks here.

⑱ TV jacks (input)

Use these jacks if you wish to connect a TV tuner with both video and audio outputs.

[VIDEO IN]
Connect the TV tuner's VIDEO OUTPUT to this jack.

[AUDIO IN (L, R)]
Connect the TV tuner's AUDIO OUTPUT to these jacks.

⑲ VIDEO jacks (input)

Connect the output jacks of video components.
For example, connect a playback-only VCR or a video camera.

⑳ VIDEO OUT TO MONITOR TV jacks (output)

Use to connect a TV monitor or a TV set with video input terminals for watching program materials from a VCR or Video disc player (LD player) connected to this unit.

㉑ FRONT AMP jacks

[PRE-OUT]
When a separate power amplifier is used to drive the front speakers, connect the power amplifier to these jacks.

[POWER IN]
When a separate preamplifier is connected and this unit is used as power amplifier, connect the preamplifier to these jacks.

㉒ MULTI-ROOM & SOURCE REMOTE IN jack

When using the MULTI-ROOM & SOURCE function, connect to the separately sold MR-100 Multi-Room remote control unit.

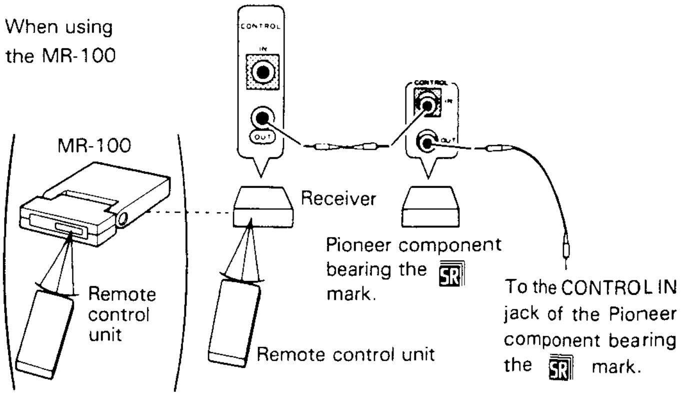
㉓ CONTROL IN, OUT jacks

Used for system control with other Pioneer components bearing the SR mark.

IN: For connection from the CONTROL OUT jack of another component (TV, etc.).

OUT: For connection to the CONTROL IN jack of another component.

NOTE:
The receiver's remote sensor does not function when a plug is inserted in the IN jack. To operate, point the remote control unit at the remote sensor on the component to which the receiver's IN jack is connected.


When using
the MR-100
CONTROL
IN
OUT
CONTROL
IN
OUT
MR-100
Receiver
Pioneer component bearing the SR mark.
Remote control unit
Remote control unit
To the CONTROL IN jack of the Pioneer component bearing the SR mark.

㉔ FRONT SPEAKERS terminals

A: Connect to the first set of speakers.
B: Connect to a second set of speakers.

Speaker impedance:
Refer to ㉕ SPEAKER IMPEDANCE SELECTOR switch.

NOTE:
Do not allow any of the code's conductors to protrude from the terminals or touch any other conductors. Malfunctioning or breakdown may occur when conductors come into contact with each other.

㉕ SPEAKER IMPEDANCE SELECTOR switch

Set this switch to match the impedance of your front speakers.

I When using one pair of speakers:

Impedance of a speaker	Selector position
8 Ω to less than 16 Ω	HIGH
4 Ω to less than 8 Ω	LOW

II When using two pairs of speakers:
Select LOW as the selector switch position and use speakers with a nominal impedance of between 8 and 16 Ω.

NOTE:
Turn off the receiver's power before changing the impedance selector switch setting.

㉖ AC OUTLETS

SWITCHED TOTAL 200 W (1.6 A) MAX
Power supplied through these outlets is turned on and off by the receiver's POWER switch. Total electrical power consumption of connected equipment should not exceed 200 W (1.6 A).

UNSWITCHED 200 W (1.6 A) MAX
Power flows continually to this outlet, regardless of whether the receiver is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 200 W (1.6 A).

NOTE:
Do not connect appliances with high power consumption such as heaters, irons, or television sets to these AC OUTLETS in order to avoid overheating and fire risk.
This can cause the receiver to malfunction.

CAUTION:
DO NOT CONNECT MONITOR OR TV SET.

㉗ AC Power cord

Connect to AC wall socket.

NOTE:
This unit should be disconnected by removing the power plug from the wall socket when not in regular use, e.g. when on vacation.

10. SPECIFICATIONS

Amplifier section

OUTPUT POWER (POWER AMP IN)
(Front)
Continuous average power output of 130 watts* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.005 % total harmonic distortion.**

Rear, center	40 W + 40 W, 40 W (1 kHz, 0.08 %, 8 Ω)

Audio section

Damping Factor	
1 kHz, 8 Ω	100
Input (Sensitivity/Impedance)	
PHONO MM	2.5 mV/47 kΩ
CD, LINE, TAPE 1/DAT, TAPE 2, VIDEO, TV, LD, VCR 1, VCR 2, VCR 3	150 mV/47 kΩ
POWER AMP IN	1 V/47 kΩ
Phono Overload Level (T.H.D. 0.08 %, 1 kHz)	
PHONO MM	150 mV
Output (Level/Impedance)	
TAPE 1/DAT REC, TAPE 2 REC, VCR 1 OUT, VCR 2 OUT	150 mV/2.2 kΩ
PRE AMP OUT	1 V/220 Ω
Frequency Response	
PHONO MM	20 Hz to 20,000 Hz ± 0.3 dB
CD, LINE, TAPE 1/DAT, TAPE 2, VIDEO, TV, LD, VCR 1, VCR 2, VCR 3	5 Hz to 100,000 Hz $^{+0}_{-3}$ dB
Tone Control	
BASS	±8 dB (100 Hz)
MIDDLE	±8 dB (1 kHz)
TREBLE	±8 dB (10 kHz)
Loudness Contour	+6 dB (100 Hz) +3 dB (10 kHz)
Signal-to-Noise Ratio (IHF, short-circuited, A network)	
PHONO MM	82 dB
CD, LINE, TAPE 1/DAT, TAPE 2, VIDEO, TV, LD, VCR 1, VCR 2, VCR 3	98 dB
Signal-to-Noise Ratio (EIA, at 1 W (1 kHz))	
PHONO MM	77 dB
CD, LINE, TAPE 1/DAT, TAPE 2, VIDEO, TV, LD, VCR 1, VCR 2, VCR 3	80 dB

VIDEO Section

Input (Sensitivity/Impedance)	
VCR 1, VCR 2, VCR 3, LD, TV, VIDEO, ADAPTOR	1 Vp-p/75 Ω
Output (Level/Impedance)	
VCR 1, VCR 2, ADAPTOR, MONITOR	1 Vp-p/75 Ω
Frequency Responce	
VCR 1, VCR 2, VCR 3, LD, TV, VIDEO, ADAPTOR → MONITOR	5 Hz – 10 MHz $^{+0}_{-3}$ dB
Signal-to-Noise Ratio	55 dB
Cross Talk	55 dB (3.58 MHz)
Enhancer	±3 dB (2 MHz)

[S terminals]

Input (Sensitivity/impedance)	
VCR 1, VCR 2, LD	Luminance signal: 1 Vp-p/75 Ω Color difference signal: 0.286 Vp-p/75 Ω
Output (Level/impedance)	
VCR 1, VCR 2, TO MONITOR TV	Luminance signal: 1 Vp-p/75 Ω Color difference signal: 0.286 Vp-p/75 Ω
Frequency response	
Luminance signal	5 Hz to 10 MHz, $^{+0}_{-3}$ dB
Signal-to-Noise Ratio	
Luminance signal	55 dB
Cross talk	55 dB (3.58 MHz)

Surround section

Input (Sensitivity/Impedance)	
REAR POWER AMP IN	1 V/47 kΩ
CENTER POWER AMP IN	1 V/47 kΩ
Output (Level/Impedance)	
REAR PRE AMP OUT	1 V/470 Ω
CENTER PRE AMP OUT	1 V/470 Ω

FM Tuner Section

Frequency Range	87.5 MHz to 108 MHz
Usable Sensitivity	Mono; 10.8 dBf, IHF (0.95 μV/75 Ω)
50 dB Quieting Sensitivity	Mono; 15.3 dBf, (1.6 μV/75 Ω) Stereo; 37.0 dBf, (19.5 μV/75 Ω)
Signal-to-Noise Ratio	Mono; 80 dB (at 65 dBf) Stereo; 76 dB (at 85 dBf)
Distortion	Mono; 0.08 % (100 Hz) 0.08 % (1 kHz) 0.2 % (6 kHz) Stereo; 0.2 % (100 Hz) 0.15 % (1 kHz) 0.3 % (6 kHz)
Capture Ratio	1.0 dB
Alternate Channel Selectivity	65 dB (400 kHz)
Stereo Separation	50 dB (1 kHz)
Frequency Response	30 Hz to 15 kHz $^{+0.5}_{-2.0}$ dB
Image Interference Ratio	50 dB
IF Interference Ratio	80 dB
AM Suppression Ratio	55 dB
Spurious Interference Ratio	70 dB
Antenna Input	300 Ω balanced 75 Ω unbalanced

AM Tuner Section

Frequency range	When 10 kHz step: 530 kHz – 1,700 kHz When 9 kHz step: 531 kHz – 1,602 kHz
Sensitivity (IHF, Loop antenna)	300 μV/m
Selectivity	30 dB
Signal-to-Noise Ratio	50 dB
Image Interference Ratio	40 dB
Antenna	Loop antenna

SPECIFICATIONS

Miscellaneous

Power requirements	AC 120V, 60 Hz
Power consumption	600 W, 790 VA
In standby condition	3 W
AC Outlets	SWITCHED x 2: TOTAL 200 W MAX UNSWITCHED x 1: 200 W MAX
Dimensions	420 (W) x 162 (H) x 421 (D) mm 16-9/16 (W) x 6-3/8 (H) x 16-9/16 (D) in
Weight (without package)	14.6 kg (32 lb 3 oz)

Furnished Parts

FM T-type antenna	1
AM Loop antenna	1
Size "AA" Alkaline batteries (LR6/AM-3)	2
Remote control unit	1
Operating Instructions	1

NOTE:

Specifications and the design subject to possible modifications without notice due to improvements.

* *Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifier.*

** *Measured by Audio Spectrum Analyzer.*

PIONEER®
The Art of Entertainment

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Service Manual

ORDER NO.
ARP2490

AUDIO/VIDEO STEREO RECEIVER

VSX-D901S

KUC, KUC/CA, SD

- **Refer to the service manual ARP2287 for VSX-95 and VSX-9900S.**
- This manual is applicable to VSX-D901S/KUC, KUC/CA and SD.

CONTRAST OF MISCELLANEOUS PARTS

NOTES:
- *Parts without part number cannot be supplied.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

The VSX-D901S/KUC, KUC/CA and SD types are the same as the VSX-95/KUC type with the exception of the following sections.

Mark	Symbol & Description	Part No.			Remarks
		VSX-95/ KUC type	VSX-D901S/ KUC, KUC/CA types	VSX-D901S/ SD type	
◉	MAIN FUNCTION assembly	AWZ3673	AWZ3560	AWZ3560	
◉	SUB FUNCTION assembly	AWZ3674	AWZ3561	AWZ3561	
◉	VIDEO FUNCTION assembly	AWZ3675	AWZ3562	AWZ3562	
◉	ENHANCER assembly	AWZ3676	AWZ4161	AWZ3563	
◉	OSD assembly	AWZ3634	AWZ3634	....	
	TERMINAL assembly	....	....	Non Supply	＊1

＊1 : TERMINAL assembly of VSX-D901/SD is in same location as OSD assembly of VSX-95.

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DFG APR. 1992 Printed in Japan

Mark	Symbol & Description	Part No.				Remarks
		VSX−95/ KUC type	VSX−D901S/ KUC type	VSX−D901S/ KUC/CA type	VSX−D901S/ SD type	
⚠	S2 Line voltege selector (AC110V−127V/220V−240V)	....	....	....	AKX1004	
⚠	S3 Slide switch (9k/10k)	....	....	....	ASH−004	
⚠	S4 Line voltege selector (AC110V/120−127V/220V/240V)	....	....	....	AKX−507	
⚠	T Power transformer	ATS1360	ATS1360	ATS1360	ATS1361	
⚠	C2 Ceramic capacitor (0.1/250V)	....	....	....	ACE−507	
⚠	FU1 Fuse (8A/125V)	AEK1035	AEK1035	AEK1035	....	
⚠	FU1 Fuse (5A/125V)	....	....	....	AEK−126	
⚠	FU2 Fuse (5A/125V)	....	....	....	AEK−126	(Page 8, No. 74)
⚠	FU3, FU4 Fuse (6.3A/125V)	AEK−309	AEK−309	AEK−309	AEK−127	
⚠	AC Power cord	ADG1072	ADG1058	ADG1058	ADG1051	
⚠	Fuse holder (For FU2)	....	....	....	AKR1001	(Page 8, No. 73)
	AC cord spacer	ANG1153	....	....	....	
	Strain relief	....	AEP−113	AEP−113	AEC−882	
	Name plate	AAM1001	AAM1029	AAM1029	AAM1029	
	FL filter	AAK2169	AAK2168	AAK2168	AAK2168	
	Leg assembly	AMR1158	....	....	....	
	Front panel	ANB1480	ANB1520	ANB1520	ANB1520	
	Bonnet case	ANE1307	AZN1804	AZN1804	AZN1804	
	Wood collar	AEC1165	....	....	....	
	Side board R	AMS1056	....	....	....	
	Side board L	AMS1057	....	....	....	
	Screw (For Side board)	ABA1086	....	....	....	
	Screw (For Side board)	VSZ40P170FZK	....	....	....	
	Screw (For Slide switch, S3)	....	....	....	BMZ26P040FZK	
	Screw (For Bonnet case)	....	FBT40P080FZK	FBT40P080FZK	FBT40P080FZK	
	Screw	ABA1137	....	....	....	(Page 4, No. 18)
	Screw	ABA1138	....	....	....	(Page 4, No. 19)
	Top pad	AHA1033	....	....	....	
	Bottom pad	AHA1034	....	....	....	
	Front, rear pad	....	AHA1164	AHA1164	AHA1164	
	Packing case	AHD2122	AHD2266	AHD2266	AHD2293	
	Operating instructions (English)	ARB1333	ARB1371	ARB1371	ARB1371	
	Operating instructions (French)	....	....	ARC1357	....	
	Remote control unit (CU−VSX031)	AXD1223	....	....	....	
	Remote control unit (CU−VSX023)	....	AXD1207	AXD1207	AXD1207	*2

*2 : Remote control unit of VSX−D901S is identical to that of VSX−9900S.

◉ MAIN FUNCTION assembly (AWZ3560)

The MAIN FUNCTION assembly (AWZ3560) is the same as the MAIN FUNCTION assembly (AWZ3673) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ3673	AWZ3560	
	CN Pin jack 8P	AKB1182	AKB1127	
	CN Pin jack 6P	AKB1154	AKB1138	

◉ SUB FUNCTION assembly (AWZ3561)

The SUB FUNCTION assembly (AWZ3561) is the same as the SUB FUNCTION assembly (AWZ3674) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ3674	AWZ3561	
	CN Pin jack 6P	AKB1178	AKB1140	
	CN Pin jack 8P	AKB1179	AKB1144	

◉ VIDEO FUNCTION assembly (AWZ3562)

The VIDEO FUNCTION assembly (AWZ3562) is the same as the VIDEO FUNCTION assembly (AWZ3675) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ3675	AWZ3562	
	CN Pin jack 3P	AKB1170	AKB1143	
	CN Pin jack 2P	AKB1173	AKB1118	

◉ ENHANCER assembly (AWZ3563 and AWZ4161)

The ENHANCER assembly (AWZ3563 and AWZ4161) are the same as the ENHANCER assembly (AWZ3676) with the exception of the following sections.

Mark	Symbol & Description	Part No.			Remarks
		AWZ3676	AWZ3563	AWZ4161	
	CN Pin jack 3P	AKB1170	AKB1143	AKB1143	
	J42 Jumper	Non supply	....	Non supply	

TERMINAL assembly

NOTES:

- *Parts without part number cannot be supplied.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560Ω 56×10^1 561..........................RD1/4PS $\boxed{5}\boxed{6}\boxed{1}$ J
47kΩ 47×10^3 473..........................RD1/4PS $\boxed{4}\boxed{7}\boxed{3}$ J
0.5Ω 0R5...RN2H $\boxed{0}\boxed{R}\boxed{5}$ K
1Ω 010...RS1P $\boxed{0}\boxed{1}\boxed{0}$ K

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

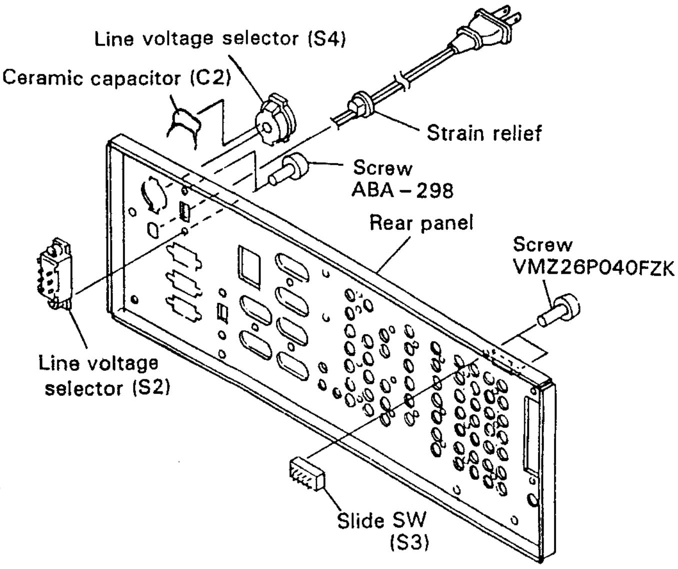
5.62kΩ 562×10^1 5621.......................RN1/4SR $\boxed{5}\boxed{6}\boxed{2}\boxed{1}$ F

Mark	No.	Description	Parts No.
CAPACITORS			
	C751–754	CERAMIC CAPACITOR	CKCYB102K50
RESISTORS			
		All resistors	RD1/8PM474J
OTHERS			
		PIN JACK 1P	AKB1139
		PIN JACK 2P	AKB1142
	CN	PIN JACK 4P	AKB1181

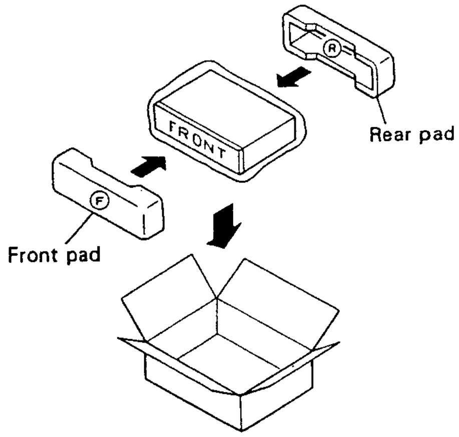
Note :

For schematic diagram and PCB connection diagram of VSX-D901S/SD, refer to pages 52–54 of the service manual for VSX-95 and VSX-9900S.

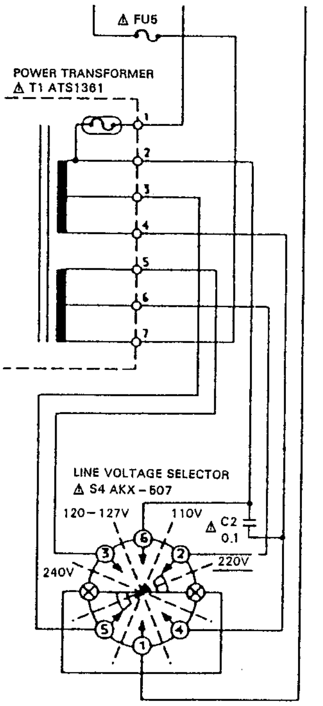
● EXPLODED VIEW (VSX-D901S/SD)


Line voltage selector (S4)
Ceramic capacitor (C2)
Strain relief
Screw
ABA-298
Rear panel
Screw
VMZ26P040FZK
Line voltage
selector (S2)
Slide SW
(S3)

● PACKING (VSX-D901S)


R
FRONT
Rear pad
F
Front pad

● SCHEMATIC DIAGRAM (VSX-D901S/SD)


⚠ FU5
POWER TRANSFORMER
⚠ T1 ATS1361
1
2
3
4
5
6
7
LINE VOLTAGE SELECTOR
⚠ S4 AKX-507
120–127V
110V
⚠ C2
0.1
220V
240V
6
3
2
5
4
1